6th Grade Math
Week of May 4th-8th

Monday, May 4th- American Math and Drops in the Bucket

Tuesday, May 5th- American Math and Drops in the Bucket

Wednesday, May 6th- American Math and Drops in the Bucket

Thursday, May 7th- American Math and Drops in the Bucket

Friday, May 8th- American Math and Drops in the Bucket

DROPS IN THE BUCKET - MATH LEVEL E — NUMBER 30

NAME Monday SCORE

1 BASIC FACTS

6 × 9

_____	28 = ___ x ___	16 ÷ 8 =	13 - 9 =
_____	45 = ___ x ___	20 ÷ 5 =	7 - 3 =
_____	14 = ___ x ___	72 ÷ 8 =	16 - 7 =
_____			

2 ALGORITHMS

$878.29 + 135.73 + 82.77

384.5 miles - 92.8 miles

3 feet 4 inches x 7

12)3000

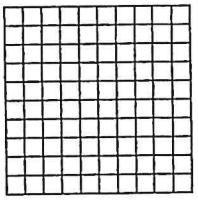
3 PROBABILITY STATISTICS

What is Mark's average score?

Quiz 1	93
Quiz 2	99
Quiz 3	99
Quiz 4	89
Quiz 5	10
Total	

4 DECIMAL NUMBERS

Color and write fifty-five hundredths as a decimal and fraction.

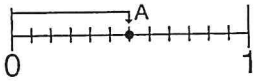


_____

_____

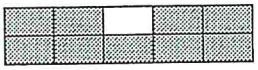
5 FRACTIONAL FORMS

What fraction?



_____

What fraction?



_____

Reduce this improper fraction.

$\frac{4}{2}$ = _____

Compare. Use >, <, or =.

$\frac{8}{12}$ ◯ $\frac{9}{12}$

6 PROBLEM SOLVING

The average laundry worker folds five towels in a minute, but Miss Parker folds eight! At the end of an hour, how many more towels has she folded than the average worker?

7 ADDING AND SUBTRACTING FRACTIONS

$\frac{1}{3} + \frac{1}{6}$

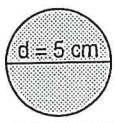
$\frac{3}{4} - \frac{1}{2}$

$9\frac{5}{12} + 1\frac{7}{12}$

$3\frac{4}{5} - 2\frac{3}{10}$

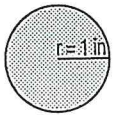
8 VOCABULARY GEOMETRY

The circumference is always 3.14 times the **diameter**! Find the circumference of each.



3.14 x

3.14 x



3.14 x

3.14 x

9 AREA VOLUME PERIMETER

Complete the sentences using the words *perimeter, area,* or *volume.*

Length times width gives the _____ of a rectangle or square.

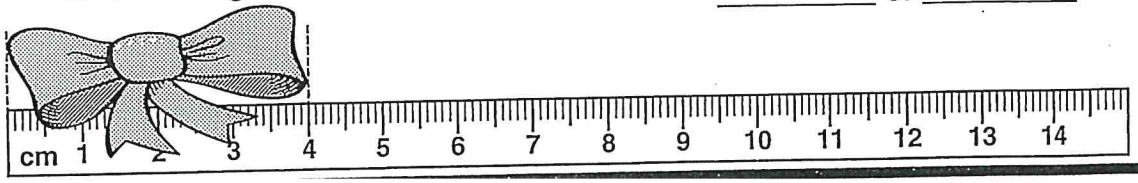
The sum of all sides gives the _____ of a polygon.

One side times four gives the _____ of a square.

Length times width times height gives the _____ of a box.

10 METRIC MEASURES

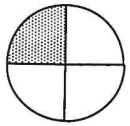
Give the length in centimeters and millimeters. _____ or _____



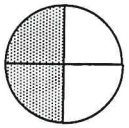
Write the first 11 multiples of **12** and **15**. Then circle the lowest common multiple.

12	15
0	
12	
24	

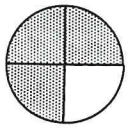
Describe each model with a fraction, percent, and decimal.



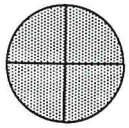
$= \frac{1}{4} =$ 25% $=$ 0.25



$=$ ____ $=$ ____ $=$ ____



$=$ ____ $=$ ____ $=$ ____



$=$ ____ $=$ ____ $=$ ____

A) Latifah has 0.5 grams of cayenne pepper, 6.2 grams of salt, and 2.25 grams of cilantro. What is the total mass of the spices?

B) Shing wants to buy a truck that costs $27,225. Shing has $15,780. About how much more money does Shing need to buy the truck?

C) Kayla made a banner for her friend.

96 in.

HAPPY BIRTHDAY! ?

The length of the banner is 96 inches and the perimeter is 216 inches. What is the width of the banner?

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Change each mixed number to an improper fraction.

$1\frac{1}{4} = \frac{5}{4}$ $3\frac{1}{4} =$

$4\frac{1}{4} =$ $10\frac{1}{4} =$

Write each number in factor form and standard form.

6^2	6×6	36
6^3		
6^4		

Write the expanded form of each number.

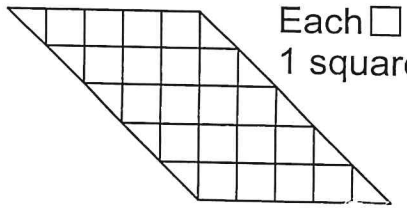
398.527	300 + 90 + 8 + 0.5 + 0.02 + 0.007
607.095	
3,004.109	
6,400.125	

A) Connor drank $\frac{1}{4}$ of a 32-ounce bottle of juice. Zachary drank $\frac{1}{4}$ of 16-ounce bottle of juice. How many ounces of juice did the boys drink?

B) Angel read 42 pages on Monday, 54 pages on Tuesday, and 63 pages on Wednesday. What is the average number of pages he read those three days?

C) Maricruz made a design with ceramic tiles.

What is the area of her design?



Each □ equals 1 square foot.

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DROPS IN THE BUCKET - MATH LEVEL E

NUMBER 30

NAME Key **SCORE** _____

1 BASIC FACTS

6 × 9

6×9=54
9×6=54
54÷9=6
54÷6=9

28 = 4 x 7
45 = 9 x 5
14 = 7 x 2

16 ÷ 8 = 2
20 ÷ 5 = 4
72 ÷ 8 = 9

13 - 9 = 4
7 - 3 = 4
16 - 7 = 9

2 ALGORITHMS

$878.29
135.73
+ 82.77
1096.79

384.5 miles
- 92.8 miles
291.7 mi

3 feet 4 inches
x 7
21 ft 28 in
23 ft 4 in

12)3000
250
-241
60
-60
000

3 PROBABILITY STATISTICS

What is Mark's average score?

Quiz 1	93
Quiz 2	99
Quiz 3	99
Quiz 4	89
Quiz 5	10
Total	90

5)390
-35
40
-40
0
78

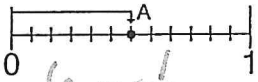
4 DECIMAL NUMBERS

Color and write fifty-five hundredths as a decimal and fraction.

.55
55/100

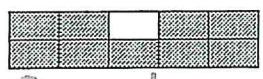
5 FRACTIONAL FORMS

What fraction?



6/12 = 1/2

What fraction?



9/10 1/10

Reduce this improper fraction.

4/2 = 2

Compare. Use >, <, or =.

8/12 ◯ 9/12

6 PROBLEM SOLVING

The average laundry worker folds five towels in a minute, but Miss Parker folds eight! At the end of an hour, how many more towels has she folded than the average worker?

5)60
-5
10
-10
0
12

8)600
-56
40
7.5

back 180 more

7 ADDING AND SUBTRACTING FRACTIONS

1/3 = 2/6
+ 1/6 = 1/6
3/6 = 1/2

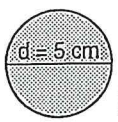
3/4
- 1/2 = 2/4
1/4

9 5/12
+ 1 7/12
10 12/12 = 11

3 4/5 = 8/10
- 2 3/10 = 3/10
1 5/10 = 1½

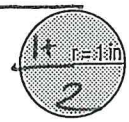
8 VOCABULARY GEOMETRY

The circumference is always 3.14 times the **diameter**! Find the circumference of each.



3.14
x 5
15.70

3.14
x 3
9.42



3.14
x 2
6.28

3.14
x 4
12.56

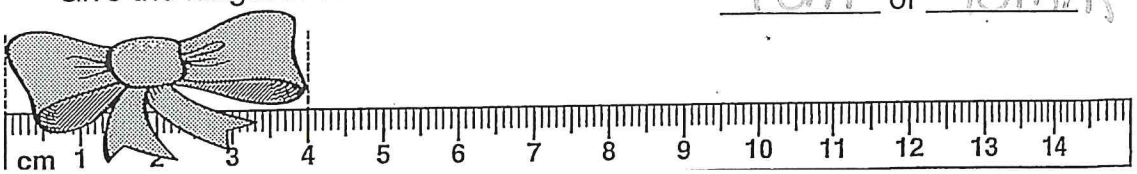
9 AREA VOLUME PERIMETER

Complete the sentences using the words *perimeter, area,* or *volume.*

Length times width gives the area of a rectangle or square.
The sum of all sides gives the Perimeter of a polygon.
One side times four gives the Perimeter of a square.
Length times width times height gives the volume of a box.

10 METRIC MEASURES

Give the length in centimeters and millimeters. 4 cm or 40mm



-1 96
-2 93
-3 89
-4 86
-5 82
-6 79
-7 75
-8 71
-9 68
-10 64
-11 61
-12 57
-13 54
-14 50

$$\begin{array}{r} 12. \\ \times\ 5 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 250 \\ 12.\overline{)3000} \\ -24 \\ \hline 60 \\ -60 \\ \hline 00\ 0 \end{array}$$

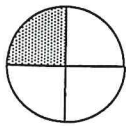
$$\begin{array}{r} 60 \\ \times\ 5 \\ \hline 300 \end{array} \qquad \begin{array}{r} 60 \\ \times\ 8 \\ \hline 480 \end{array} \qquad \begin{array}{r} 480 \\ -300 \\ \hline 180 \end{array}$$

180 more

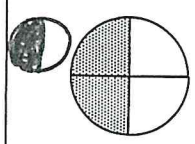
Write the first 11 multiples of **12** and **15**. Then circle the lowest common multiple.

12	15
0	0
12	15
24	30
36	45
48	60
60	75
72	90
84	105
96	120
108	135
120	150

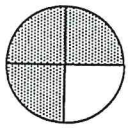
Describe each model with a fraction, percent, and decimal.



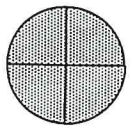
$= \frac{1}{4} =$ 25% $=$ 0.25



$= \frac{2}{4} =$ 50% 0.50



$= \frac{3}{4} =$ 75% $=$ 0.75



$= \frac{4}{4} =$ 100% $=$ 1.00

A) Latifah has 0.5 grams of cayenne pepper, 6.2 grams of salt, and 2.25 grams of cilantro. What is the total mass of the spices?

8.95 grams

B) Shing wants to buy a truck that costs $27,225. Shing has $15,780. About how much more money does Shing need to buy the truck?

27,000 − 16,000

About $11,000

C) Kayla made a banner for her friend.

96 in.

HAPPY BIRTHDAY!

?

216 − 96 = 96

The length of the banner is 96 inches and the perimeter is 216 inches. What is the width of the banner?

12 inches

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Change each mixed number to an improper fraction.

$1\frac{1}{4} = \frac{5}{4}$ $\quad 3\frac{1}{4} = \frac{13}{4}$

$4\frac{1}{4} = \frac{17}{4}$ $\quad 10\frac{1}{4} = \frac{41}{4}$

Write each number in factor form and standard form.

6^2	6 × 6	36
6^3	6×6×6	216
6^4	6×6×6×6	1296

Write the expanded form of each number.

398.527	300 + 90 + 8 + 0.5 + 0.02 + 0.007
607.095	600+7+0.09+0.005
3,004.109	3000+4+0.1+0.009
6,400.125	6000+400+0.1+0.02+0.005

A) Connor drank $\frac{1}{4}$ of a 32-ounce bottle of juice. Zachary drank $\frac{1}{4}$ of 16-ounce bottle of juice. How many ounces of juice did the boys drink?

12 ounces

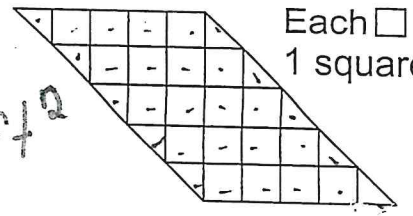
B) Angel read 42 pages on Monday, 54 pages on Tuesday, and 63 pages on Wednesday. What is the average number of pages he read those three days?

53 pages

C) Maricruz made a design with ceramic tiles.

What is the area of her design?

25 ft^2



Each □ equals 1 square foot.

DROPS IN THE BUCKET - MATH LEVEL E

NUMBER 31

NAME _____ Tuesday SCORE _____

1 BASIC FACTS

10 + 10 =	80 - 10 =	0 x 80 =	80 ÷ 2 =
900 + 300 =	170 - 90 =	30 x 50 =	100 ÷ 2 =
200 + 100 =	100 - 40 =	20 x 30 =	180 ÷ 3 =

2 ALGORITHMS

36.9 + 18 =

100.4°F
- 98.6°F

13.5
x .02

.8)17.04

3 PROBABILITY STATISTICS

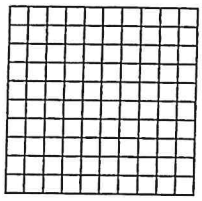
If you arrange a set of numbers from smallest to largest, the number in the middle is called the median. Circle the median number of miles Lou ran.

Miles run per week

1.3 5 5.1 7 8 8 8.5

4 DECIMAL NUMBERS

Color and write twenty-eight hundredths as a decimal and fraction.



_____

_____

5 FRACTIONAL FORMS

How many doughnuts are in 1/3 dozen?

$\frac{1}{3} \times 12 = \frac{\square}{3} = \square$

Four ounces is what part of a pound?

$\frac{4}{16} =$

Reduce this improper fraction.

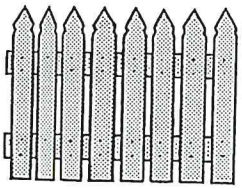
$\frac{10}{4} =$ _____

Compare. Use >, <, or =.

$\frac{1}{2}$ ○ $\frac{3}{8}$

6 PROBLEM SOLVING

Frank builds fence sections using eight vertical slats nailed to two horizontal boards. How many fence sections can he make with 32 dozen slats? How many horizontal boards will he need?



7 ADDING AND SUBTRACTING FRACTIONS

$\frac{7}{8} + \frac{5}{8}$

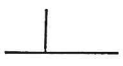
$\frac{1}{2} + \frac{3}{4}$

$6\frac{1}{3} + 2\frac{2}{3}$

$1 - \frac{1}{2}$

8 VOCABULARY GEOMETRY

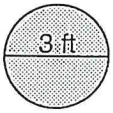
Perpendicular lines intersect to form right angles. Label these lines parallel or perpendicular.



A. _____ B. _____ C. _____ D. _____

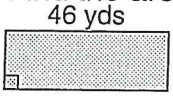
9 AREA VOLUME PERIMETER

Find the circumference.

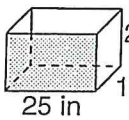


3.14
x ___

Find the area.



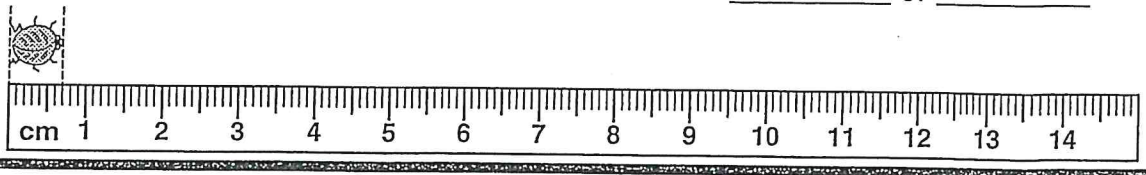
Find the volume.



C = _____ A = _____ V = _____

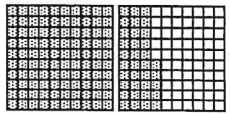
10 METRIC MEASURES

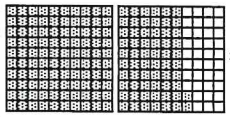
Give the length in centimeters and millimeters. _____ or _____

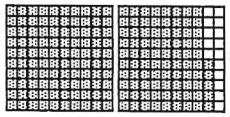


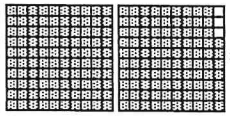
© 1998. Mary Jo Hand

Describe each model with a decimal and a mixed number.


= 1.35 = $1\frac{35}{100}$


= ____ =


= ____ =


= ____ =

Round each number to the nearest 10,000.

38,875 → 40,000

64,016 → ____

127,638 → ____

375,400 → ____

1,982,564 → ____

3,309,000 → ____

Add. Simplify the answer.

$\frac{3}{9} + \frac{3}{9} =$

$\frac{2}{12} + \frac{6}{12} =$

A) Sylvia has a red shirt, a blue shirt, and a yellow shirt. She has a pair of white pants and a pair of black pants. She needs to pick 1 shirt and 1 pair of pants to wear to the festival. How many different combinations are possible?

B) Malika earns $6.50 each hour she babysits. If she babysits 5 hours on Friday night and 6 hours on Saturday night, how much money will she earn?

C) Trinity has 1 pint of ice cream.

How many ounces of ice cream does she have?

1 gallon	=	4 quarts
1 quart	=	2 pints
1 pint	=	2 cups
1 cup	=	8 ounces

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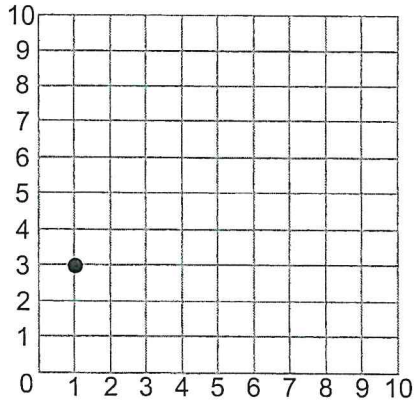
Plot each point on the graph. Then connect the points with a line.



x	1	3	5	7	9
y	3	4	5	6	7

Complete each equivalent fraction.

$\frac{3}{4} = \frac{\quad}{12}$ $\quad \frac{1}{2} = \frac{9}{\quad}$

$\frac{8}{10} = \frac{4}{\quad}$ $\quad \frac{5}{10} = \frac{\quad}{100}$

$\frac{1}{2} = \frac{\quad}{20}$ $\quad \frac{6}{10} = \frac{12}{\quad}$

$\frac{3}{12} = \frac{9}{\quad}$ $\quad \frac{20}{80} = \frac{\quad}{8}$

Subtract. Simplify the answer.

$\frac{80}{100} - \frac{30}{100} =$

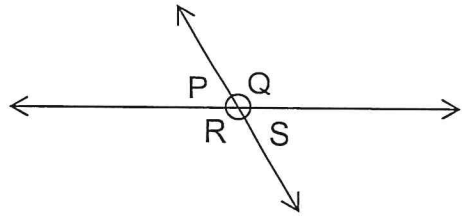
$\frac{3}{24} - \frac{1}{24} =$

A) Gustavo captured a cricket and a grasshopper. The combined mass of the insects is 3.15 grams. If the mass of the cricket is 1.6 grams, then what is the mass of the grasshopper?

B) The basketball court is 84 feet long and 50 feet wide. If Quincy runs around the perimeter of the court 10 times, how many feet will he run?

C) Angles P, Q, R, and S equal 360° altogether.

Angle *P* equals 60°. Angle *Q* equals 120°. Angle *R* equals 120°. What does angle *S* equal?



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DROPS IN THE BUCKET - MATH LEVEL E

NUMBER 31

NAME Key.

SCORE

-196
-293
389
-486
-582
679
775
871

1 BASIC FACTS

10 + 10 = 20	80 - 10 = 70	0 x 80 = 0	80 ÷ 2 = 40
900 + 300 = 1200	170 - 90 = 80	30 x 50 = 1500	100 ÷ 2 = 50
200 + 100 = 300	100 - 40 = 60	20 x 30 = 600	180 ÷ 3 = 60

2 ALGORITHMS

36.9 + 18 = 54.9

98.6 + 1.8 = 100.4

100.4°F - 98.6°F = 1.8°F

13.5 x .02 = 0.270

.8)17.04 = 21.3

3 PROBABILITY STATISTICS

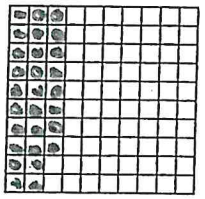
If you arrange a set of numbers from smallest to largest, the number in the middle is called the median. Circle the median number of miles Lou ran.

Miles run per week: 1.3, 5, 5.1, 7, 8, 8, 8.5

7

4 DECIMAL NUMBERS

Color and write twenty-eight hundredths as a decimal and fraction.



.28

$\frac{28}{100}$

5 FRACTIONAL FORMS

How many doughnuts are in 1/3 dozen?

$\frac{1}{3} \times 12 = \frac{12}{3} = 4$

Four ounces is what part of a pound?

$\frac{4}{16} = \frac{1}{4}$

Reduce this improper fraction.

$\frac{10}{4} = 2\frac{2}{4} = 2\frac{1}{2}$

Compare. Use >, <, or =.

$\frac{1}{2} < \frac{3}{8}$

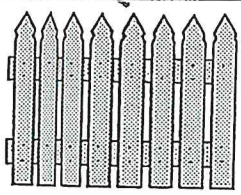
6 PROBLEM SOLVING

Frank builds fence sections using eight vertical slats nailed to two horizontal boards. How many fence sections can he make with 32 dozen slats? How many horizontal boards will he need?

32 x 12 = 384

384 ÷ 6 = 64

back



7 ADDING AND SUBTRACTING FRACTIONS

$\frac{7}{8} + \frac{5}{8} = \frac{12}{8} = 1\frac{4}{8} = 1\frac{1}{2}$

$\frac{1}{2} + \frac{3}{4} = \frac{2}{4} + \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$

$6\frac{1}{3} + 2\frac{2}{3} = 8\frac{3}{3} = 9$

$1\frac{2}{2} - \frac{1}{2} = \frac{1}{2}$

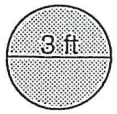
8 VOCABULARY GEOMETRY

Perpendicular lines intersect to form right angles. Label these lines parallel or perpendicular.

A. ⊥ perpen. B. + perpen. C. // parallel D. × perpen.

9 AREA VOLUME PERIMETER

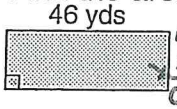
Find the circumference.



3.14 x 3 = 9.42

C = 9.42

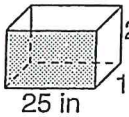
Find the area.



46 x 22 = 92 + 920 = 1012 yds²

A = 1012 yds²

Find the volume.



25 x 22 = 550

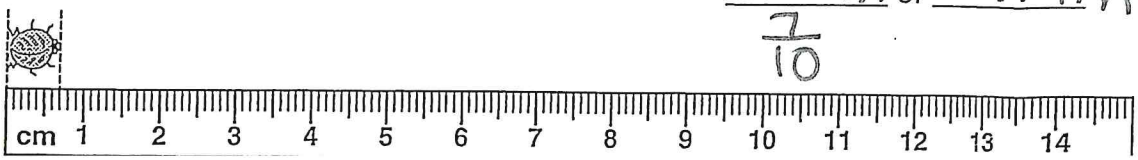
550 x 17 = 50 50 500 550

back

V = 550

10 METRIC MEASURES

Give the length in centimeters and millimeters.



.7 cm or 7 mm

$\frac{7}{10}$

$$\begin{array}{r} {\scriptstyle 1} \\ 13.5 \\ \times\ .02 \\ \hline 270 \\ +0000 \\ \hline 0.270 \end{array}$$

$$\begin{array}{r} 21.3 \\ .8\overline{)17.04} \\ -16 \\ \hline 10 \\ -\ 8. \\ \hline 24 \\ -24 \\ \hline 0 \end{array}$$

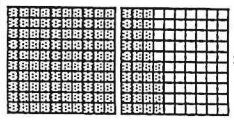
$$\begin{array}{r} 32 \\ \times 12 \\ \hline 64 \\ 320 \\ \hline 384 \end{array}$$

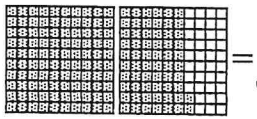
$$\begin{array}{r} 38\ r4 \\ 10\overline{)384} \\ -30 \\ \hline 84 \\ -80 \\ \hline 4 \end{array}$$

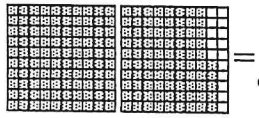
$$\begin{array}{r} 4 \text{ vertical} \\ 8\overline{)38} \\ -32 \\ \hline 6 \end{array}$$

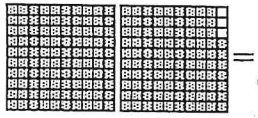
$$\begin{array}{r} {\scriptstyle 3} \\ 17 \\ \times\ 550 \\ \hline 850 \\ 850 \\ \hline 9350 \end{array}$$

Describe each model with a decimal and a mixed number.


= 1.35 = $1\frac{35}{100}$


= 1.62 = $1\frac{62}{100}$


= 1.85 = $\frac{185}{100}$


= 1.97 = $1\frac{97}{100}$

Round each number to the nearest 10,000.

38,875 → 40,000

64,016 → 60,000

127,638 → 130,000

375,400 → 380,000

1,982,564 → 1,980,000

3,309,000 → 3,310,000

Add. Simplify the answer.

$\frac{3}{9} + \frac{3}{9} = \frac{2}{3}\left(\frac{6}{9}\right)$

$\frac{2}{12} + \frac{6}{12} = \frac{2}{3}\left(\frac{8}{12}\right)$

A) Sylvia has a red shirt, a blue shirt, and a yellow shirt. She has a pair of white pants and a pair of black pants. She needs to pick 1 shirt and 1 pair of pants to wear to the festival. How many different combinations are possible? 3 × 2

6 combinations

B) Malika earns $6.50 each hour she babysits. If she babysits 5 hours on Friday night and 6 hours on Saturday night, how much money will she earn?

$ 71.50

C) Trinity has 1 pint of ice cream.

How many ounces of ice cream does she have?

16 ounces

1 gallon	=	4 quarts
1 quart	=	2 pints
1 pint	=	2 cups
1 cup	=	8 ounces

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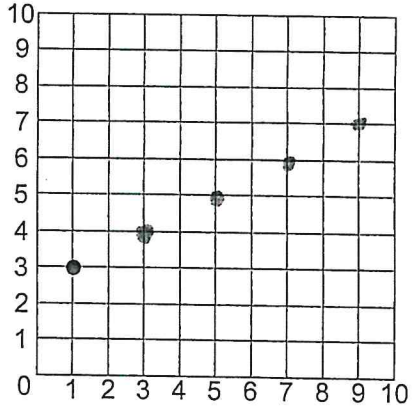
Name

Plot each point on the graph. Then connect the points with a line.



x	1	3	5	7	9
y	3	4	5	6	7

Complete each equivalent fraction.

$\frac{3}{4} = \frac{9}{12}$ $\frac{1}{2} = \frac{9}{18}$

$\frac{8}{10} = \frac{4}{5}$ $\frac{5}{10} = \frac{50}{100}$

$\frac{1}{2} = \frac{10}{20}$ $\frac{6}{10} = \frac{12}{20}$

$\frac{3}{12} = \frac{9}{36}$ $\frac{20}{80} = \frac{2}{8}$

Subtract. Simplify the answer.

$\frac{80}{100} - \frac{30}{100} = \frac{1}{2}\left(\frac{50}{100}\right)$

$\frac{3}{24} - \frac{1}{24} = \frac{1}{12}\left(\frac{2}{24}\right)$

A) Gustavo captured a cricket and a grasshopper. The combined mass of the insects is 3.15 grams. If the mass of the cricket is 1.6 grams, then what is the mass of the grasshopper?

1.55 grams

3.15 − 1.6

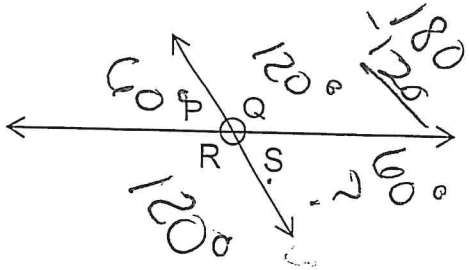
B) The basketball court is 84 feet long and 50 feet wide. If Quincy runs around the perimeter of the court 10 times, how many feet will he run?

2680 feet

C) Angles P, Q, R, and S equal 360° altogether.

Angle *P* equals 60°. Angle *Q* equals 120°. Angle *R* equals 120°. What does angle *S* equal?

60°



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DROPS IN THE BUCKET - MATH LEVEL E — NUMBER 32

NAME _____ Wednesday SCORE _____

1 BASIC FACTS

60 + 40 =	50 - 40 =	6 x 10 =	90 ÷ 3 =
700 + 100 =	110 - 20 =	0 x 60 =	120 ÷ 4 =
400 + 200 =	140 - 50 =	50 x 80 =	450 ÷ 9 =

2 ALGORITHMS

24.9 + 65 + 4.2 =

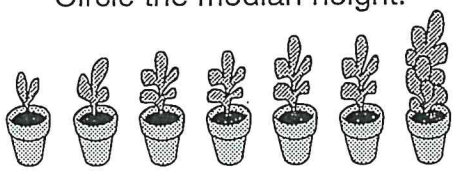
2 weeks 3 days
- 5 days
_____

10.82
x 8.5
_____

$4\overline{)39.40}$

3 PROBABILITY STATISTICS

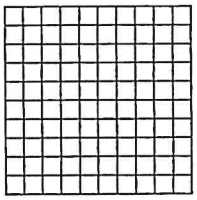
Circle the median height.



4 cm 6 cm 7 cm 7 cm 9 cm 9 cm 13 cm

4 DECIMAL NUMBERS

Color and write twenty-nine hundredths as a decimal and fraction.



_____

_____

5 FRACTIONAL FORMS

How many muffins are half a dozen?

$\frac{1}{2} \times 12 = \frac{\square}{2} = \square$

Eight ounces is what part of a pound?

$\frac{8}{16} =$

Reduce this improper fraction.

$\frac{6}{4} =$ _____

Compare. Use >, <, or =.

$\frac{2}{3}$ ◯ $\frac{5}{6}$

6 PROBLEM SOLVING

A roll of film for this camera costs $4.79. There are 16 shots on the roll. It costs $12.17 to get the film developed. What is the total cost of the 16 photos? How much does each snapshot cost including the film and the developing?

7 ADDING AND SUBTRACTING FRACTIONS

$\frac{2}{3} + \frac{2}{3}$

$\frac{3}{4} + \frac{3}{8}$

$9\frac{1}{4} + 6\frac{3}{4}$

$1 - \frac{5}{8}$

8 VOCABULARY GEOMETRY

Label each box whole numbers, mixed numbers, proper fractions or improper fractions.

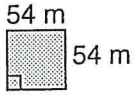
_____	_____	_____	_____
$\frac{2}{3}, \frac{5}{6}$	$\frac{8}{6}, \frac{4}{3}$	9, 30	$3\frac{1}{2}, 5\frac{1}{2}$

9 AREA VOLUME PERIMETER

Find the circumference.

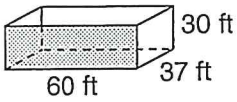
C = _____

Find the area.



A = _____

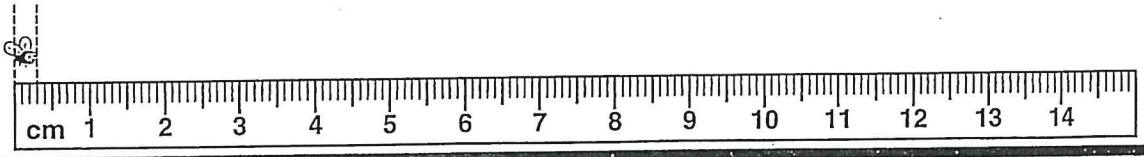
Find the volume.



V = _____

10 METRIC MEASURES

Give the length in centimeters and millimeters. _____ or _____



© 1998, Mary Jo Hand

Change each mixed number to an improper fraction.

$1\frac{2}{3} = \frac{5}{3}$ $\quad 2\frac{3}{4} =$

$3\frac{4}{5} =$ $\quad 4\frac{1}{10} =$

Complete the table.

mL	500	1000	1300	2500
L		1.0	1.3	2.5

Find each missing addend.

0.45 + ____ = 1

____ + 0.85 = 1

0.25 + ____ = 1

____ + 0.50 = 1

Use the correct order of operations to solve each equation.

$16 + 4 \times 4 \times 2 - 20 =$ ____

$24 + 12 \div 3 \times 2 - 8 =$ ____

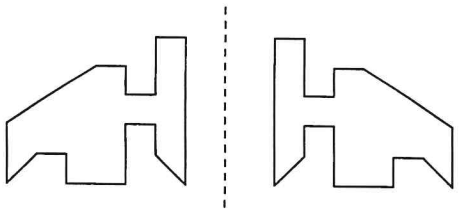
$5^2 \div (3 + 2) + 6 - 10 =$ ____

A) One hundred ninety-two students eat lunch in the cafeteria at noon. The cafeteria has 16 tables and an equal number of students sit at each table. How many students sit at each table?

B) Mr. Liáng's garden is 10 feet long and 12 feet wide. What is the area of his garden?

C) Gavin drew a figure then drew a transformation of it.

Did he draw a translation, rotation, or reflection of the figure?



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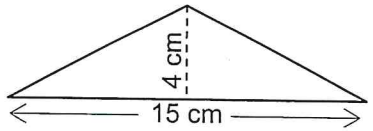
Find the area of the triangle.

Area △ = $\frac{1}{2}$ × base × height



Area = ____ cm^2

Write each number in factor form and standard form.

4^2	4 × 4	16
4^3		
5^2		
5^3		

Add. Simplify the answers.

$\frac{1}{2} + \frac{1}{4}$ $\qquad$ $\frac{1}{3} + \frac{1}{4}$

Write the value of the underlined digit.

1,245,688 ____

4,687,000 ____

32,254,706 ____

64,004,527 ____

A) Ms. White bought a computer that was on sale for $2,495. The regular price of the computer was $3,199. Estimate how much she saved by buying the computer on sale.

B) Caleb left his house at 9:15 am. He returned at 6:30 pm. How long was Caleb gone?

C) Evelyn wrote a 10-digit number.

Write Evelyn's number with words.

3,005,009,001

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DROPS IN THE BUCKET - MATH LEVEL E — NUMBER 32

NAME _____ SCORE _____

1 BASIC FACTS

60 + 40 = 100	50 - 40 = 10	6 x 10 = 60	90 ÷ 3 = 30
700 + 100 = 800	110 - 20 = 90	0 x 60 = 0	120 ÷ 4 = 30
400 + 200 = 600	140 - 50 = 90	50 x 80 = 4000	450 ÷ 9 = 50

2 ALGORITHMS

24.9 + 65 + 4.2 =

24.9
+ 4.2
94.1

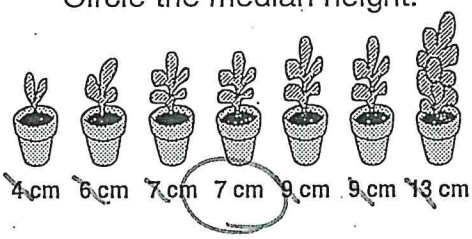
2 weeks 3 days
- 5 days
1 wk 5 days
12 days

10.82
x 8.5
back →

4)39.40

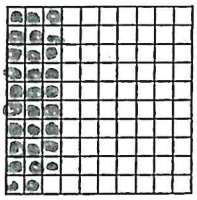
3 PROBABILITY STATISTICS

Circle the median height.



4 DECIMAL NUMBERS

Color and write twenty-nine hundredths as a decimal and fraction.



.29
29
100

5 FRACTIONAL FORMS

How many muffins are half a dozen?

$\frac{1}{2} \times 12 = \frac{12}{2} = 6$

Eight ounces is what part of a pound?

$\frac{8}{16} = \frac{1}{2}$

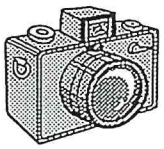
Reduce this improper fraction.

$\frac{6}{4} = 1\frac{2}{4} = 1\frac{1}{2}$

Compare. Use >, <, or =.

$12\frac{2}{3} > 15\frac{5}{6}$

6 PROBLEM SOLVING



A roll of film for this camera costs $4.79. There are 16 shots on the roll. It costs $12.17 to get the film developed. What is the total cost of the 16 photos? How much does each snapshot cost including the film and the developing?

12.17
+4.79
16.96

$1.06 →

7 ADDING AND SUBTRACTING FRACTIONS

$\frac{2}{3} + \frac{2}{3} = \frac{4}{3} = 1\frac{1}{3}$

$\frac{3}{4} = \frac{6}{8}$

$\frac{3}{8} + \frac{3}{8} = \frac{9}{8} = 1\frac{1}{8}$

$9\frac{1}{4} + 6\frac{3}{4} = 15\frac{4}{4} = 16$

$0\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$

8 VOCABULARY GEOMETRY

Label each box whole numbers, mixed numbers, proper fractions or improper fractions.

Proper fract.	improper fract.	Whole numbers	Mixed numbers
$\frac{2}{3}, \frac{5}{6}$	$\frac{8}{6}, \frac{4}{3}$	9, 30	$3\frac{1}{2}, 5\frac{1}{2}$

9 AREA VOLUME PERIMETER

Find the circumference.

3.14
x 17
53.38

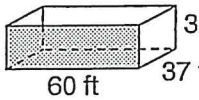
C = 53.38

Find the area.

54
x 54
216
2700

A = 2700

Find the volume.



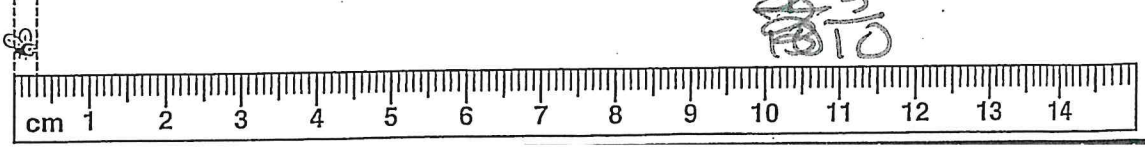
60
30
1800
x 37
66600

V = 66600

10 METRIC MEASURES

Give the length in centimeters and millimeters. 3.3 or 3mm

3
3
10



$$
\begin{array}{r}
10.82 \\
\times \quad 8.5 \\
\hline
5 4 1 0 \\
+\,8 6 5 6 0 \\
\hline
9 1.9 7 0
\end{array}
$$

$$
\begin{array}{r|l}
 & 9.85 \\
\hline
4 & 39.40 \\
 & -36 \\
\hline
 & 34 \\
 & -32 \\
\hline
 & 20 \\
 & -20 \\
\hline
 & 0
\end{array}
$$

$$
\begin{array}{r|l}
 & 1.06 \\
\hline
16 & 16.96 \\
 & -16 \\
\hline
 & 09 \\
 & -0 \\
\hline
 & 96 \\
 & -96 \\
\hline
 & 0
\end{array}
$$

Change each mixed number to an improper fraction.

$1\frac{2}{3} = \frac{5}{3}$ $2\frac{3}{4} = \frac{11}{4}$

$3\frac{4}{5} = \frac{19}{5}$ $4\frac{1}{10} = \frac{41}{10}$

Complete the table.

mL	500	1000	1300	2500
L	0.5	1.0	1.3	2.5

Find each missing addend.

0.45 + 0.55 = 1

0.15 + 0.85 = 1

0.25 + 0.75 = 1

0.50 + 0.50 = 1

Use the correct order of operations to solve each equation.

$16 + 4 \times 4 \times 2 - 20 = 28$

$24 + 12 \div 3 \times 2 - 8 = 24$

$5^2 \div (3 + 2) + 6 - 10 = 1$

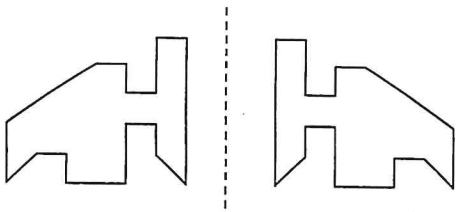
A) One hundred ninety-two students eat lunch in the cafeteria at noon. The cafeteria has 16 tables and an equal number of students sit at each table. How many students sit at each table?

12

B) Mr. Liáng's garden is 10 feet long and 12 feet wide. What is the area of his garden? 120

C) Gavin drew a figure then drew a transformation of it.

Did he draw a translation, rotation, or reflection of the figure? reflection



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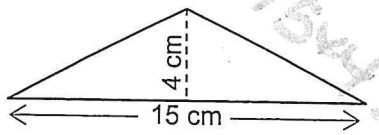
Find the area of the triangle.

Area △ = $\frac{1}{2}$ × base × height



Area = 30 cm²

Write each number in factor form and standard form.

4^2	4 × 4	16
4^3	4 × 4 × 4	64
5^2	5 × 5	25
5^3	5 × 5 × 5	125

Add. Simplify the answers.

$\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$

$\frac{1}{3} + \frac{1}{4} = \frac{7}{12}$

Write the value of the underlined digit.

1,245,688	40,000
4,687,000	4,000,000
32,254,706	6
64,004,527	60,000,00

A) Ms. White bought a computer that was on sale for $2,495. The regular price of the computer was $3,199. Estimate how much she saved by buying the computer on sale.

$700 − $2,500 = $700

3199 − 2495 = 704

B) Caleb left his house at 9:15 am. He returned at 6:30 pm. How long was Caleb gone?

9 hours 15 min

540 / 15 / 555 minutes

C) Evelyn wrote a 10-digit number.

Write Evelyn's number with words. 3,005,009,001

Three billion, five million, nine thousand, one

DROPS IN THE BUCKET - MATH LEVEL E

NUMBER 33

NAME Thursday SCORE

1 BASIC FACTS

80 + 30 =	90 - 80 =	2 x 20 =	80 ÷ 4 =
300 + 200 =	120 - 70 =	80 x 40 =	150 ÷ 3 =
100 + 600 =	110 - 80 =	0 x 30 =	560 ÷ 8 =

2 ALGORITHMS

48.1
16.7
+ 86.8

150.3 - 30.15 =

$12.35
x 52

24)185.04

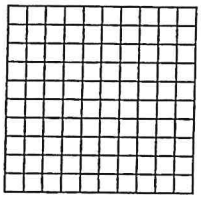
3 PROBABILITY STATISTICS

Circle the median price.

What is the average price?

4 DECIMAL NUMBERS

Color and write thirty hundredths as a decimal and fraction.



_____

_____

5 FRACTIONAL FORMS

How many cupcakes are in 1/4 dozen?

_____

Twelve ounces is what part of a pound?

_____

Reduce this improper fraction.

$\frac{8}{6}$ = _____

Compare. Use >, <, or =.

$\frac{3}{4}$ ◯ $\frac{6}{8}$

6 PROBLEM SOLVING

These are Dr. Ryan's yearly expenses: assistant $22,000; office manager $24,000; insurance $43,000; office rent $12,000; supplies and other expenses $7,000. How much must he make every month just to pay the expenses?

7 ADDING AND SUBTRACTING FRACTIONS

$\frac{3}{8}$ + $\frac{5}{8}$

$\frac{1}{3}$ + $\frac{5}{6}$

$3\frac{2}{5}$ + $1\frac{3}{5}$

1 - $\frac{3}{4}$

8 VOCABULARY GEOMETRY

Write each number in the right box. 4598 23 675 88 0 9999 84 7

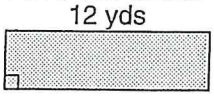
one-digit numbers	two-digit numbers	three-digit numbers	four-digit numbers

9 AREA VOLUME PERIMETER

Find the circumference.

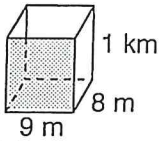
C = _____

Find the area.



A = _____

Find the volume.

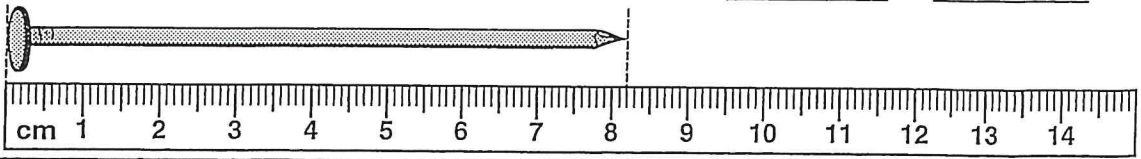


V = _____

10 METRIC MEASURES

Give the length in centimeters and millimeters.

_____ or _____



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Write the first 11 multiples of **1.2** and **1.5**.

1.2	1.5
0.0	
1.2	
2.4	

Subtract.

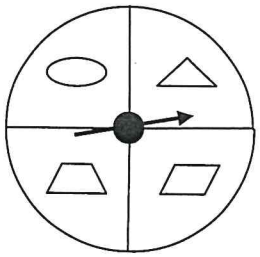
$\frac{1}{2} - \frac{1}{4}$ $\frac{1}{3} - \frac{1}{4}$ $\frac{1}{4} - \frac{1}{5}$

A) Mr. Gardner can grade 1 set of papers every 15 minutes. At this rate, how many sets of papers can he grade in 8 hours?

B) 46.6% of the Earth's crust is made up of oxygen. 27.7% is made up of silicon. 8.2% is aluminum. What percent of the Earth's crust is oxygen, silicon, or aluminum?

C) Christina made a game spinner.

If she spins the spinner 120 times, how many times is it likely to point to the ellipse?



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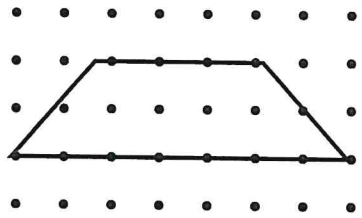
Find the fraction of each whole number.

$\frac{1}{3}$ of 12 = 4 $\frac{1}{4}$ of 16 = ____

$\frac{1}{5}$ of 20 = ____ $\frac{1}{10}$ of 10 = ____

$\frac{1}{4}$ of 12 = ____ $\frac{1}{3}$ of 21 = ____

Find the area of the trapezoid.



Area = ____ units²

Double each amount.

$1.10 ×2→ $2.10

$1.50 ×2→ ____

$2.25 ×2→ ____

$3.07 ×2→ ____

$3.15 ×2→ ____

$4.25 ×2→ ____

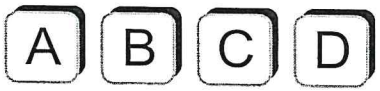
$5.50 ×2→ ____

A) Delmara ate $\frac{1}{4}$ of the pie and Pablo ate $\frac{1}{3}$ of the pie. What fraction of the pie did Delmara and Pablo eat?

B) The X-1 was the first airplane to fly faster than the speed of sound. It flew 957 mph. The X-15 can fly at a speed of 4,104 mph. About how many times faster is the X-15 than the X-1?

C) Qing-Yuan has 4 letter tiles.

How many different 4-letter arrangements are possible with A, B, C, and D?



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DROPS IN THE BUCKET - MATH LEVEL E

NUMBER 33

NAME Key 110 **SCORE** _____

1 BASIC FACTS

110 80 + 30 = ~~30~~ 80	90 - 80 = 10	2 x 20 = 40	80 ÷ 4 = 20
300 + 200 = 500	120 - 70 = 50	80 x 40 = 3200	150 ÷ 3 = 50
100 + 600 = 700	110 - 80 = 30	0 x 30 = 0	560 ÷ 8 = 70

2 ALGORITHMS

48.1
16.7
+ 86.8
151.6

150.30 − 30.15 = 120.15

120.15 + 30.15 = 150.30

$12.35 × 52 = 642.20

24)185.04 > .71

3 PROBABILITY STATISTICS

Circle the median price.

What is the average price?

23 20 +16 59 ; 59 11 +7 77

7)77 = 11

4 DECIMAL NUMBERS

Color and write thirty hundredths as a decimal and fraction.

.30 = 30/100

5 FRACTIONAL FORMS

How many cupcakes are in 1/4 dozen? 4)12 = 3

Twelve ounces is what part of a pound? 12/16 = 3/4

Reduce this improper fraction. 8/6 = 1 2/6 = 1 1/3

Compare. Use >, <, or =. 3/4 = 6/8

6 PROBLEM SOLVING

These are Dr. Ryan's yearly expenses: assistant $22,000; office manager $24,000; insurance $43,000; office rent $12,000; supplies and other expenses $7,000. How much must he make every month just to pay the expenses?

22000
24000
43000
12000
+ 7000
108,000

7 ADDING AND SUBTRACTING FRACTIONS

3/8 + 5/8 = 8/8 = 1

1/3 = 2/6 + 5/6 = 5/6 = 7/6 = 1 1/6

3 2/5 + 1 3/5 = 4 5/5 = 5

1 4/4 − 3/4 = 1/4

8 VOCABULARY GEOMETRY

Write each number in the right box. 4598 23 675 88 0 9999 84 7

one-digit numbers	two-digit numbers	three-digit numbers	four-digit numbers
0, 7	23, 84, 88	675	4598, 9999

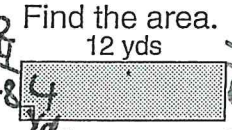
9 AREA VOLUME PERIMETER

Find the circumference.

3.14 × 33 = 942 + 9420 = 10362

C = 10362

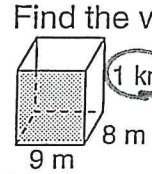
Find the area.



12 × 12 = 24 + 120 = 144

A = 432 ft

Find the volume.



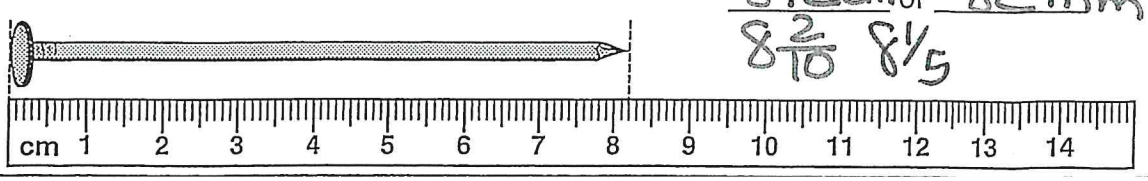
9 × 8 = 72
72 × 1 = 72

V = 7200

10 METRIC MEASURES

Give the length in centimeters and millimeters. 8.2 cm or 82 mm

8 2/10 8 1/5



$$
\begin{array}{r}
7.71 \\
24\overline{)185.04} \\
-168 \\
\hline
170 \\
-168 \\
\hline
24 \\
-24 \\
\hline
0
\end{array}
$$

$$
\begin{array}{r}
{}^{3}24 \\
\times\ 9 \\
\hline
216
\end{array}
\qquad
\begin{array}{r}
{}^{3}24 \\
\times\ 8 \\
\hline
192
\end{array}
\qquad
\begin{array}{r}
{}^{2}24 \\
\times\ 7 \\
\hline
168
\end{array}
$$

Write the first 11 multiples of **1.2** and **1.5**.

1.2	1.5
0.0	0.0
1.2	1.5
2.4	3.0
3.6	4.5
4.8	6.0
6.0	7.5
7.2	9.0
8.4	10.5
9.6	12.0
10.8	13.5
~~12.0~~ 12.0	15.0

Subtract.

$\frac{1}{2} = \frac{2}{4}$ $\quad \frac{1}{3} = \frac{4}{12}$ $\quad \frac{1}{4} = \frac{5}{20}$

$-\frac{1}{4} = \frac{1}{4}$ $\quad -\frac{1}{4} = \frac{3}{12}$ $\quad -\frac{1}{5} = \frac{4}{20}$

$\frac{1}{4}$ $\quad \frac{1}{12}$ $\quad \frac{1}{20}$

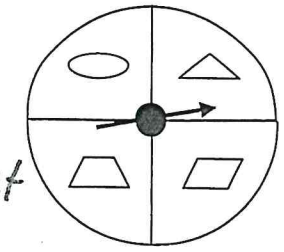
A) Mr. Gardner can grade 1 set of papers every 15 minutes. At this rate, how many sets of papers can he grade in 8 hours? 32 sets

60
8
480
32
15 | 480
-45
30

B) 46.6% of the Earth's crust is made up of oxygen. 27.7% is made up of silicon. 8.2% is aluminum. What percent of the Earth's crust is oxygen, silicon, or aluminum? 82.5%

C) Christina made a game spinner.

If she spins the spinner 120 times, how many times is it likely to point to the ellipse? About 30



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Name

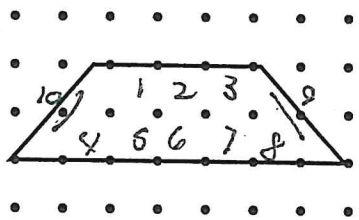
Find the fraction of each whole number.

$\frac{1}{3}$ of 12 = 4 $\quad \frac{1}{4}$ of 16 = 4

$\frac{1}{5}$ of 20 = 4 $\quad \frac{1}{10}$ of 10 = 1

$\frac{1}{4}$ of 12 = 3 $\quad \frac{1}{3}$ of 21 = 7

Find the area of the trapezoid.



Area = 10 units²

Double each amount.

$1.10 ×2 → $2.20

$1.50 ×2 → $3.00

$2.25 ×2 → $4.50

$3.07 ×2 → $6.14

$3.15 ×2 → $6.30

$4.25 ×2 → $8.50

$5.50 ×2 → $11.00

A) Delmara ate $\frac{1}{4}$ of the pie and Pablo ate $\frac{1}{3}$ of the pie. What fraction of the pie did Delmara and Pablo eat?

About 7/12

B) The X-1 was the first airplane to fly faster than the speed of sound. It flew 957 mph. The X-15 can fly at a speed of 4,104 mph. About how many times faster is the X-15 than the X-1?

About 4 times

C) Qing-Yuan has 4 letter tiles.

How many different 4-letter arrangements are possible with A, B, C, and D? (24)

1/6

A B C D

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DROPS IN THE BUCKET - MATH LEVEL E — NUMBER 34

NAME _____ Friday SCORE _____

1 BASIC FACTS

20 + 90 =	70 - 10 =	9 x 20 =	40 ÷ 2 =
800 + 500 =	180 - 90 =	30 x 30 =	250 ÷ 5 =
900 + 900 =	110 - 40 =	10 x 50 =	210 ÷ 7 =

2 ALGORITHMS

$907.45 + 34.89 + 5.62 =

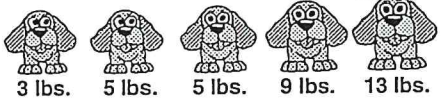
6051.0 - 13.2 =

3.4 x .07 =

.3)6.87

3 PROBABILITY STATISTICS

Circle the median weight.

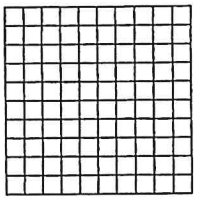


3 lbs. 5 lbs. 5 lbs. 9 lbs. 13 lbs.

What is their average weight?

4 DECIMAL NUMBERS

Color and write forty-five hundredths as a decimal and fraction.



_____

_____

5 FRACTIONAL FORMS

How many cupcakes are in 1/3 dozen?

_____

One ounce is what part of a pound?

_____

Reduce this improper fraction.

$\frac{10}{6}$ = _____

Compare. Use >, <, or =.

$\frac{3}{4}$ ◯ $\frac{5}{12}$

6 PROBLEM SOLVING

Mr. and Mrs. Kenner have a new baby. The baby needs to be fed every three-and-a-half hours around the clock. The baby was fed at 9:00 in the evening. What are the next three feeding times for the baby?

7 ADDING AND SUBTRACTING FRACTIONS

$\frac{3}{4} + \frac{3}{4}$

$\frac{3}{4} + \frac{3}{8}$

$6\frac{1}{8} + 2\frac{7}{8}$

$7 - 4\frac{3}{4}$

8 VOCABULARY GEOMETRY

Numbers you can multiply to get 6 are called the (factors, addends) of six.

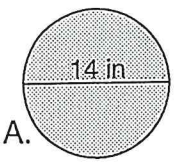
The factors of 8 are 1, ___, ___, and 8.

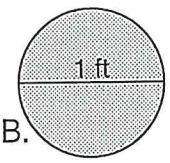
The factors of 12 are 1, 2, ___, ___, ___, and 12.

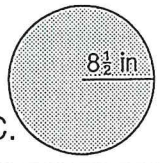
The factors of 17 are ___ and ___.

9 AREA VOLUME PERIMETER

Which of these would have the greatest circumference? _____ the least? _____

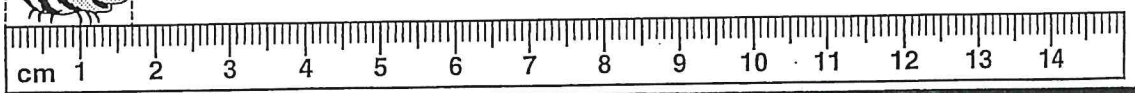
A. 

B. 

C. 

10 METRIC MEASURES

Give the length in centimeters and millimeters. _____ or _____



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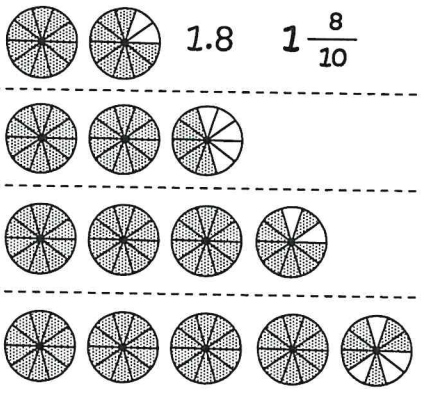
Write the first 11 multiples of **30** and **40**. Then circle the lowest common multiple.

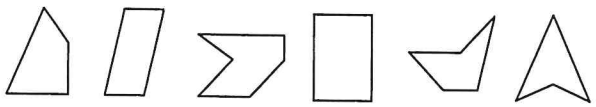
30	40
0	
30	
60	

Describe each model with a decimal number and a mixed number.



1.8 $1\frac{8}{10}$

Circle the quadrilaterals.

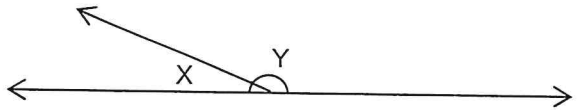


A) Margot wants new carpet for her living room. The room is 16 feet wide and 23 feet long. How many square feet of carpet does she need?

B) As the Earth orbits the Sun, it travels through space at 18.5 miles per second. How far does the Earth travel in 3 seconds?

C) Angle X and Y equal 180° together.

If angle *X* equals 23°, then what does angle *Y* equal?



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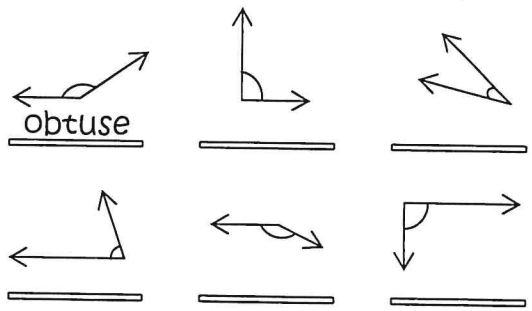
Label each angle *acute*, *obtuse*, or *right*.



Add.

$$\frac{1}{4} + \frac{1}{5} \qquad \frac{1}{3} + \frac{1}{5}$$

Divide each decimal by 10.

1.1	÷10	0.11
1.7	÷10	
2.4	÷10	
3.8	÷10	
4.2	÷10	
5.6	÷10	
7.7	÷10	
9.8	÷10	

A) In 1900, the population of the world was 1.6 billion. In 2000, the population was 6 billion. How many more people were living on Earth in 2000 than 1900?

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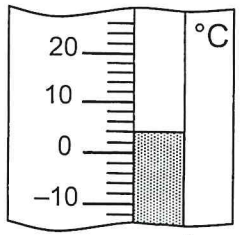

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DROPS IN THE BUCKET - MATH LEVEL E

NUMBER 34

NAME Key **SCORE** _____

1 BASIC FACTS

20 + 90 = 1100	70 - 10 = 60	9 x 20 = 180	40 ÷ 2 = 20
800 + 500 = 1300	180 - 90 = 90	30 x 30 = 900	250 ÷ 5 = 50
900 + 900 = 1800	110 - 40 = 70	10 x 50 = 500	210 ÷ 7 = 30

2 ALGORITHMS

$907.45
34.89
+ 5.62
947.96

6051.0
- 13.2
6037.8

6037.8 + 13.2 = 6051.0

3.4 x .07 =
3.4
x .07
.0238

.238

.3)6.87 = 22.9
-6
08
-6
27

22.9
27
-27
0

3 PROBABILITY STATISTICS

Circle the median weight.

3 lbs. 5 lbs. 5 lbs. 9 lbs. 13 lbs.

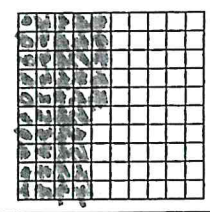
What is their average weight?

13
9
+13
35

35 5)35 7

4 DECIMAL NUMBERS

Color and write forty-five hundredths as a decimal and fraction.



$\frac{45}{100}$

.45

5 FRACTIONAL FORMS

How many cupcakes are in 1/3 dozen?

$\frac{1}{3} \times \frac{12}{1} = \frac{12}{3} = 4$

One ounce is what part of a pound?

$\frac{1}{16}$

Reduce this improper fraction.

$\frac{10}{6} = 1\frac{4}{6} = 1\frac{2}{3}$

Compare. Use >, <, or =.

36 $\frac{3}{4}$ $\frac{5}{12}$ 20

6 PROBLEM SOLVING

Mr. and Mrs. Kenner have a new baby. The baby needs to be fed every three-and-a-half hours around the clock. The baby was fed at 9:00 in the evening. What are the next three feeding times for the baby?

9:00 pm
12:30 Am
4:00 Am
7:30 Am

7 ADDING AND SUBTRACTING FRACTIONS

$\frac{3}{4} + \frac{3}{4} = \frac{6}{4} = 1\frac{2}{4} = 1\frac{1}{2}$

$\frac{3}{4} = \frac{6}{8}$, $+ \frac{3}{8} = \frac{3}{8}$, $\frac{9}{8} = 1\frac{1}{8}$

$6\frac{1}{8} + 2\frac{7}{8} = 8\frac{8}{8} = 9$

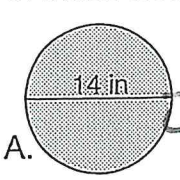
$6\frac{4}{4} - 4\frac{3}{4} = 2\frac{1}{4}$

8 VOCABULARY GEOMETRY

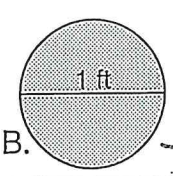
Numbers you can multiply to get 6 are called the (factors, addends) of six.
The factors of 8 are 1, 2, 4, and 8.
The factors of 12 are 1, 2, 3, 4, 6, and 12.
The factors of 17 are 1 and 17.

9 AREA VOLUME PERIMETER

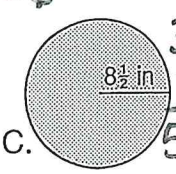
Which of these would have the greatest circumference? C the least? B



A. 3.14 x 14 = 43.96 in



B. 3.14 x 1 = 3.14 ft

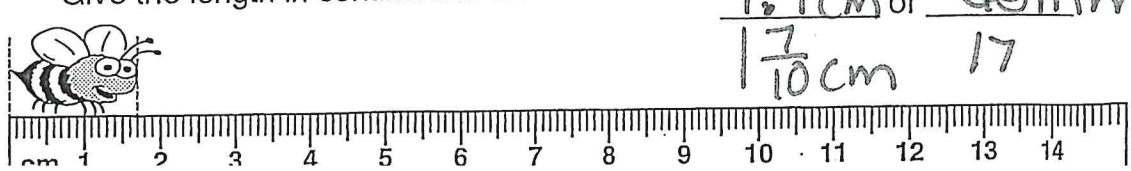


C. 3.14 x 17 = 53.38 in

10 METRIC MEASURES

Give the length in centimeters and millimeters. 1.7 cm or 17 mm

$1\frac{7}{10}$ cm 17



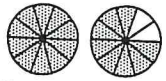
$$\begin{array}{r} 3.14 \\ \times\ 14 \\ \hline \end{array}$$

$$\begin{array}{r} 3.14 \\ \times\ 17 \\ \hline \end{array}$$

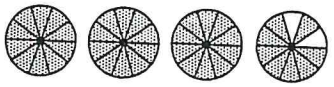
Write the first 11 multiples of **30** and **40**. Then circle the lowest common multiple.

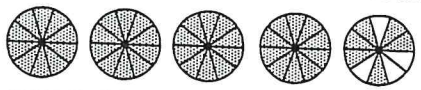
30	40
0	0
30	40
60	80
90	120
120	160
150	200
180	240
210	280
240	320
270	360
300	400

Describe each model with a decimal number and a mixed number.

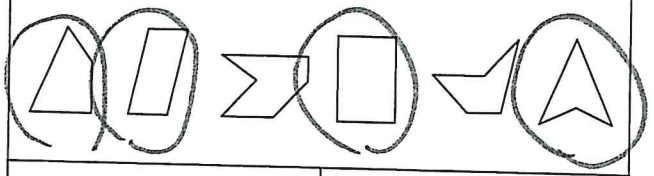

1.8 $1\frac{8}{10}$

2.5 $2\frac{5}{10}$


3.8 $3\frac{8}{10}$


4.6 $4\frac{6}{10}$

Circle the quadrilaterals.



A) Margot wants new carpet for her living room. The room is 16 feet wide and 23 feet long. How many square feet of carpet does she need?

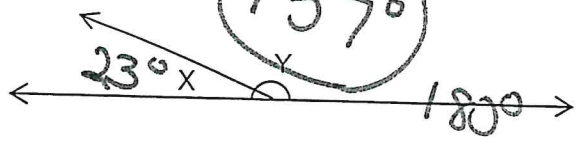
368 sq ft

B) As the Earth orbits the Sun, it travels through space at 18.5 miles per second. How far does the Earth travel in 3 seconds?

55.5 miles

C) Angle X and Y equal 180° together.

If angle *X* equals 23°, then what does angle *Y* equal?



157°

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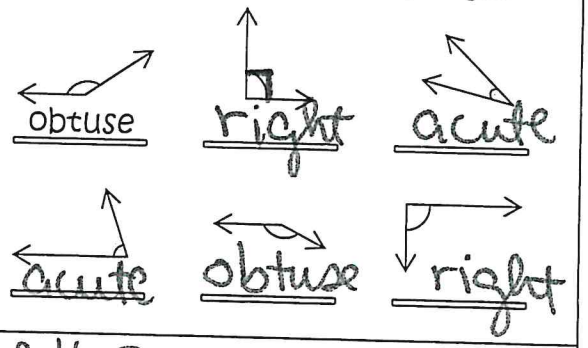
Label each angle *acute*, *obtuse*, or *right*.



Add.

4, 8, 16, 20
5, 10, 15, 20

$\frac{1}{4} + \frac{5}{20} = \frac{9}{20}$

$\frac{1}{5} + \frac{4}{20}$

$\frac{1}{3} + \frac{5}{15} = \frac{8}{15}$

$\frac{1}{5} + \frac{3}{15}$

Divide each decimal by 10.

1.1	÷10	0.11
1.7	÷10	.17
2.4	÷10	.24
3.8	÷10	.38
4.2	÷10	.42
5.6	÷10	.56
7.7	÷10	.77
9.8	÷10	.98

A) In 1900, the population of the world was 1.6 billion. In 2000, the population was 6 billion. How many more people were living on Earth in 2000 than 1900?

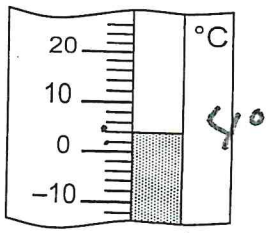
4.4 billion

B) Nakeisha has $\frac{1}{2}$ of a pound of cheese. If she uses $\frac{1}{3}$ of a pound for a recipe, what fraction of a pound of cheese will she have left?

$\frac{1}{6}$

C) The thermometer shows the temperature outside.

If the temperature increases 33°, what will be the temperature?



37° C