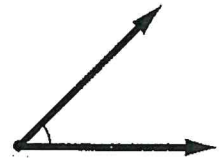


MINUTE 21

NAME _____

1. Mara has 7 pencils and Joy has 12 pencils. How many pencils do they have altogether? _____ pencils

2. Circle a reasonable measurement for the angle:
45° 90° 180°



3.
$$\begin{array}{r} 268 \\ + 14 \\ \hline \end{array}$$

In questions 4–6, what would you choose to measure each? Circle the answer.

4. distance around a soccer field centimeters meters kilometers

5. width of a book centimeters meters kilometers

6. length of a baseball bat centimeters meters kilometers

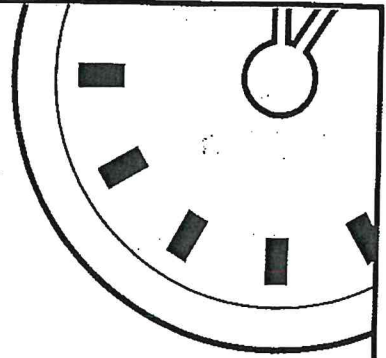
7.
$$\begin{array}{r} 618 \\ \times 7 \\ \hline \end{array}$$

8. Identify the mean of the following numbers: 15, 18, 24. _____

For questions 9 and 10, write how much time has passed.

9. 5:00 a.m. to 6:25 a.m. = _____ hour(s) and _____ minutes

10. 8:15 p.m. to 9:30 p.m. = _____ hour(s) and _____ minutes



MINUTE 22

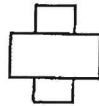
NAME _____

1.
$$\begin{array}{r} 645 \\ - 28 \\ \hline \end{array}$$

2. $42 - 21 =$

3.
$$\begin{array}{r} 645 \\ + 26 \\ \hline \end{array}$$

4. Circle the figure that is similar to the shaded figure:



A

B

C

D

5. $8 \overline{)50}$

6. 8, 16, 24, 32, 40, _____

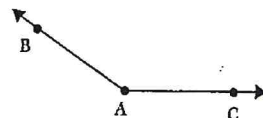
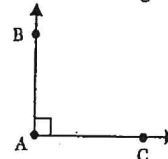
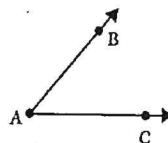
7.
$$\begin{array}{r} 542 \\ \times 8 \\ \hline \end{array}$$

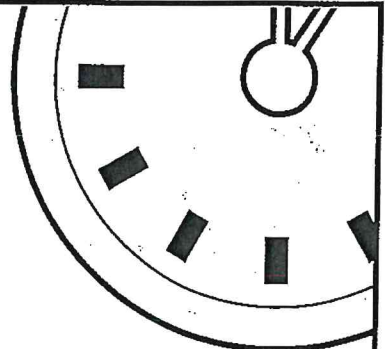
For questions 8–10, circle the name of the angle.

8. acute right obtuse

9. acute right obtuse

10. acute right obtuse





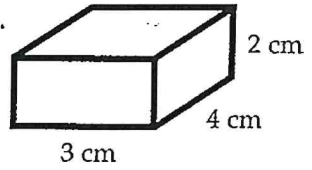
MINUTE 23

NAME _____

1. $7 \overline{)45}$

2. $\begin{array}{r} 516 \\ - 33 \\ \hline \end{array}$

3. The volume of the shape is _____ cubic centimeters.



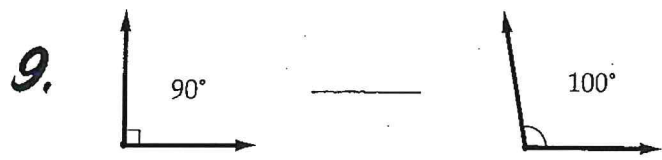
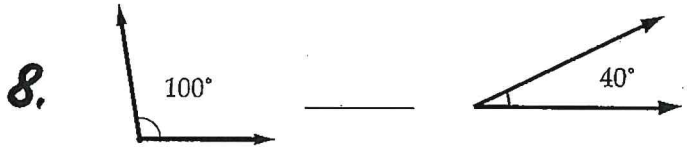
4. $\begin{array}{r} 862 \\ + 28 \\ \hline \end{array}$

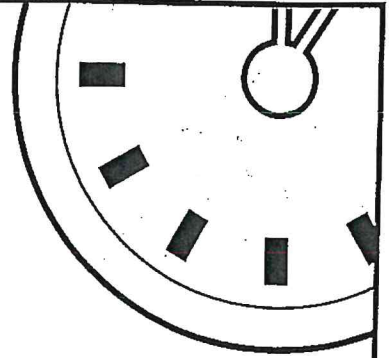
5. Mica bought a sandwich for \$1.50, a soda for 50¢, and candy for 75¢. How much did he spend on lunch? _____

6. Identify the range of the following numbers: 7, 9, 15. _____

7. $\begin{array}{r} 941 \\ \times 3 \\ \hline \end{array}$

Use <, >, or = to complete questions 8–10.





MINUTE 24

NAME _____

1. Gary has 12 tickets to the game. He gives away 8 tickets. How many tickets does he have left? _____ tickets

2.
$$\begin{array}{r} 847 \\ - 84 \\ \hline \end{array}$$

3.
$$7 \overline{)37}$$

4. Chris had a tin of 24 cookies. He has eaten $\frac{1}{4}$ of the cookies. How many cookies has he eaten? _____ cookies

5. Identify the mode of the following numbers: 18, 4, 20, 25, 20.

6.
$$\begin{array}{r} 645 \\ + 78 \\ \hline \end{array}$$

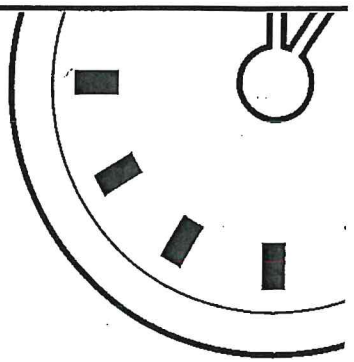
7.
$$\begin{array}{r} 624 \\ \times 7 \\ \hline \end{array}$$

8. $0.5 + 0.1 =$

For questions 9 and 10, write the value of the underlined digit.

9. $\underline{5}46 =$ _____

10. $9\underline{4}7 =$ _____



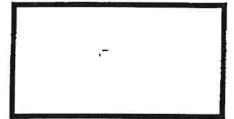
MINUTE 25

NAME _____

1. The area of the shape is _____ square inches.

3 in.

5 in.



2. What is the difference of 8 and 22? _____

3. $6 \overline{)38}$

4.
$$\begin{array}{r} 945 \\ + 94 \\ \hline \end{array}$$

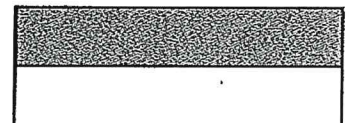
5. $0.3 + 0.5 =$

6.
$$\begin{array}{r} 845 \\ - 91 \\ \hline \end{array}$$

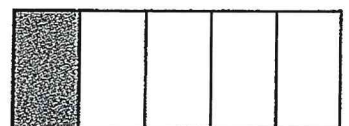
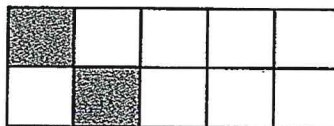
7.
$$\begin{array}{r} 879 \\ \times 6 \\ \hline \end{array}$$

For questions 8–10, write the equivalent fraction.

8. $\frac{5}{10} =$ _____



9. $\frac{2}{10} =$ _____



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



3. 92
4. 9
5. 12
6. $400+60+5$
7. 4494
8. 76
9. +
10. X

Minute 20

1. 85
2. 8
3. 15
4. 5
5. 894
6. 3
7. 2124
8. 600
9. 500
10. 600

Minute 21

1. 19
2. 45 degrees
3. 282
4. Kilometers
5. Centimeters
6. Meters
7. 4326
8. 19
9. 1 hour and 25 minutes
10. 1 hour and 30 minutes

Minute 22

1. 617
2. 21
3. 671
4. A
5. 6.25
6. 48, 56, 64
7. 4336
8. Acute
9. Right
10. Obtuse

Minute 23

1. 6.428
2. 483
3. 24
4. 890
5. \$2.75
6. 8
7. 2823
8. >
9. <
10. =

Minute 24

1. 4
2. 763
3. 5.2857
4. 6
5. 20
6. 723
7. 4368
8. 0.6
9. Hundreds
10. Ones

Minute 25

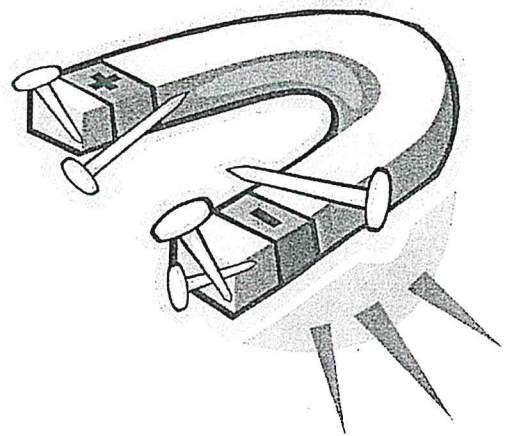
1. 15
2. -14
3. 6.3333
4. 1039
5. 0.8
6. 754
7. 5274
8. $\frac{1}{2}$
9. $\frac{1}{5}$
10. $\frac{3}{4}$

Minute 26

1. 915
2. 16
3. LNP or PNL
4. PNO or ONP
5. 7 and 7
6. 9.571
7. 2484
8. Room 14
9. 60

SIMPLIFYING ADDITION EXPRESSIONS

An expression is a group of numbers written with operation signs. We can simplify by performing the opposite operation. Subtraction means adding a negative.



Examples:

$$4 - 2$$

$$4 - 2 = 4 + ^{-}2$$

$$4 + ^{-}2 = 2$$

$$7 - 3$$

$$7 - 3 = 7 + \underline{\hspace{2cm}}$$

$$7 + ^{-}3 = \underline{\hspace{2cm}}$$

The Game: Fill in the blanks.

$$9 - 3 = 9 + \underline{\hspace{2cm}}$$

$$5 - 2 = 5 + \underline{\hspace{2cm}}$$

$$15 - 4 = 15 + \underline{\hspace{2cm}}$$

$$21 - 2 = 21 + \underline{\hspace{2cm}}$$

$$14 - 4 = 14 + \underline{\hspace{2cm}}$$

$$37 - 6 = 37 + \underline{\hspace{2cm}}$$



What is an expression?

Ch. 29
SIMPLIFYING ADDITION EXPRESSIONS

An expression is a group of numbers written with operation signs. We can simplify by performing the opposite operation. Subtraction means adding a negative.

Examples:

$$4 - 2$$

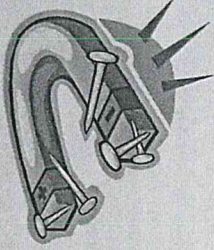
$$4 - 2 = 4 + -2$$

$$4 + -2 = 2$$

$$7 - 3$$

$$7 - 3 = 7 + -3$$

$$7 + -3 = 4$$



The Game: Fill in the blanks.

$$9 - 3 = 9 + \underline{-3}$$

$$15 - 4 = 15 + \underline{-4}$$

$$14 - 4 = 14 + \underline{-4}$$

$$5 - 2 = 5 + \underline{-3}$$

$$21 - 2 = 21 + \underline{-2}$$

$$37 - 6 = 37 + \underline{-6}$$



What is an expression?

A GROUP OF NUMBERS WRITTEN WITH OPERATION SIGNS.

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Ch. 29
ADDING NEGATIVE INTEGERS

Adding negative integers is the same as subtraction!

$$5 + -3 = 5 - 3$$

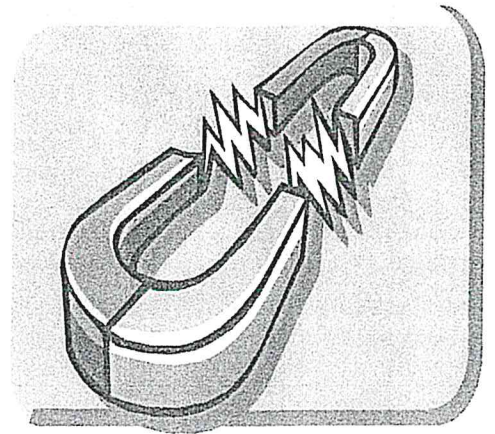
$$5 + -3 = 2$$



ADDING POSITIVE INTEGERS

Adding a positive integer is the same as adding a regular number.

$$5 + 5 + +6 = 5 + 5 + 6$$
$$16 = 16$$



The problem \rightarrow $10 + 5 + +5$
Group numbers together. \rightarrow $(10 + 5) + +5$
Add all numbers. \rightarrow $15 + 5$

The answer \rightarrow 20

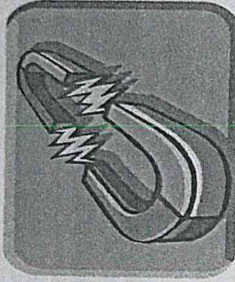
The Game: Add the positive integers. Show your work. Write the answers in the blanks.

$5 + 5 + +9 = \underline{\hspace{2cm}}$	$5 + 5 + 9 = \underline{\hspace{2cm}}$
$20 + 5 = \underline{\hspace{2cm}}$	$2 + 8 + +10 = \underline{\hspace{2cm}}$
$10 + +1 + 3 = \underline{\hspace{2cm}}$	$3 + +7 + 0 = \underline{\hspace{2cm}}$
$2 + 7 + 3 = \underline{\hspace{2cm}}$	$3 + +2 + 7 + 3 = \underline{\hspace{2cm}}$
$10 + +30 + 10 = \underline{\hspace{2cm}}$	$1 + 9 + +7 = \underline{\hspace{2cm}}$

The answer → 3

ch. 29

ADDING POSITIVE INTEGERS



Adding a positive integer is the same as adding a regular number.

$$5 + 5 + *6 = 5 + 5 + 6$$

$$16 = 16$$

The problem → $10 + 5 + *5$
 Group numbers together. → $(10 + 5) + *5$
 Add all numbers. → $15 + 5$

The answer → 20

The Game: Add the positive integers. Show your work. Write the answers in the blanks.

$5 + 5 + *9 =$ _____ $10 + *9 = 19$	$5 + 5 + 9 =$ _____ $10 + 9 = 19$
$20 + 5 =$ _____ 25	$2 + 8 + *10 =$ _____ $10 + *10 = 20$
$10 + *1 + 3 =$ _____ $11 + 3 = 14$	$3 + *7 + 0 =$ _____ $10 + 0 = 10$
$2 + 7 + 3 =$ _____ $9 + 3 = 12$	$3 + *2 + 7 + 3 =$ _____ $5 + 7 + 3$ $12 + 3 = 15$
$10 + *30 + 10 =$ _____ $40 + 10 = 50$	$1 + 9 + *7 =$ _____ $10 + *7 = 17$

ADDING NEGATIVE INTEGERS

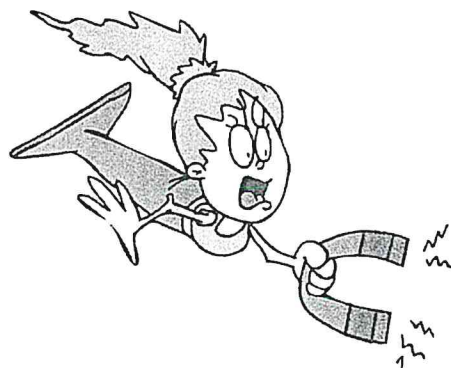
Adding negative integers is the same as subtraction!

$$5 + ^{-}3 = 5 - 3$$

$$5 + ^{-}3 = 2 \text{ or } 5 - 3 = 2$$

$$2 = 2$$

$$5 + ^{-}3 = \underline{\hspace{2cm}} \text{ is the same as } 5 - 3 = \underline{\hspace{2cm}}.$$



The Game: Add the negative integers. Show your work. Write the answers in the blanks.

$10 + ^{-}5 = \underline{\hspace{2cm}}$	$10 + ^{-}2 = \underline{\hspace{2cm}}$
$3 + ^{-}1 = \underline{\hspace{2cm}}$	$50 + ^{-}25 = \underline{\hspace{2cm}}$
$8 + ^{-}4 = \underline{\hspace{2cm}}$	$20 + ^{-}5 = \underline{\hspace{2cm}}$
$40 + ^{-}10 = \underline{\hspace{2cm}}$	$39 + ^{-}9 = \underline{\hspace{2cm}}$
$100 + ^{-}90 = \underline{\hspace{2cm}}$	$80 + ^{-}20 = \underline{\hspace{2cm}}$



What is an expression?

A GROUP OF NUMBERS WRITTEN WITH OPERATION SIGNS.

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Ch. 29

ADDING NEGATIVE INTEGERS



Adding negative integers is the same as subtraction!

$$5 + ^{-}3 = 5 - 3$$

$$5 + ^{-}3 = 2 \text{ or } 5 - 3 = 2$$

$$2 = 2$$

$$5 + ^{-}3 = \underline{2} \text{ is the same as } 5 - 3 = \underline{2}.$$

The Game: Add the negative integers. Show your work. Write the answers in the blanks.

$10 + ^{-}5 = \underline{\quad}$ $10 - 5 = 5$	$10 + ^{-}2 = \underline{\quad}$ $10 - 2 = 8$
$3 + ^{-}1 = \underline{\quad}$ $3 - 1 = 2$	$50 + ^{-}25 = \underline{\quad}$ $50 - 25 = 25$
$8 + ^{-}4 = \underline{\quad}$ $8 - 4 = 4$	$20 + ^{-}5 = \underline{\quad}$ $20 - 5 = 15$
$40 + ^{-}10 = \underline{\quad}$ $40 - 10 = 30$	$39 + ^{-}9 = \underline{\quad}$ $39 - 9 = 30$
$100 + ^{-}90 = \underline{\quad}$ $100 - 90 = 10$	$80 + ^{-}20 = \underline{\quad}$ $80 - 20 = 60$

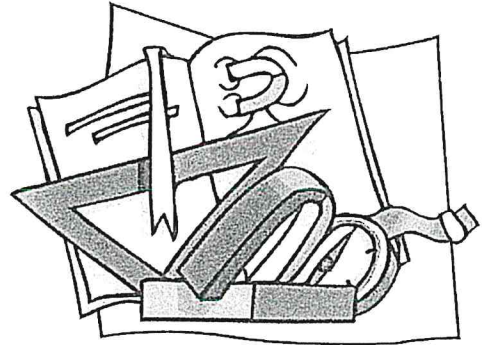
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SIMPLIFYING

When we work the operations of a problem, it is called simplifying. Start by grouping numbers together to make the problem easier.



Break It Down:

The problem →

$$4 + +4 + ^{-}2$$

Group numbers together to simplify. →

$$(4 + +4) + ^{-}2$$

Adding a negative is the same as subtracting. →

$$8 + ^{-}2 \text{ or } 8 - 2$$

The answer →

$$6$$

The Game: Fill in the blanks.

The problem →

$$5 + ^{-}1 + 4$$

Group numbers together to simplify. →

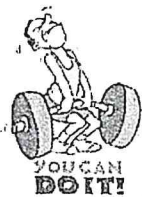
$$(5 + ^{-}1) + 4$$

Add. →

$$\underline{\hspace{2cm}} + 4$$

The answer →

$$\underline{\hspace{2cm}}$$

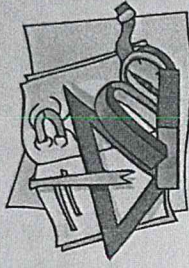


What is simplifying?

ch 29

SIMPLIFYING

When we work the operations of a problem, it is called simplifying. Start by grouping numbers together to make the problem easier.



Break it Down: →

The problem →

Group numbers together to simplify. →

Adding a negative is the same as subtracting. →

The answer →

$$4 + 4 + 2$$

$$(4 + 4) + 2$$

$$8 + 2 \text{ or } 8 - 2$$

$$6$$

The Game: Fill in the blanks.

The problem →

Group numbers together to simplify. →

Add. →

The answer →

$$5 + 1 + 4$$

$$(5 + 1) + 4$$

$$\underline{4} + 4$$

$$\underline{8}$$



What is simplifying?

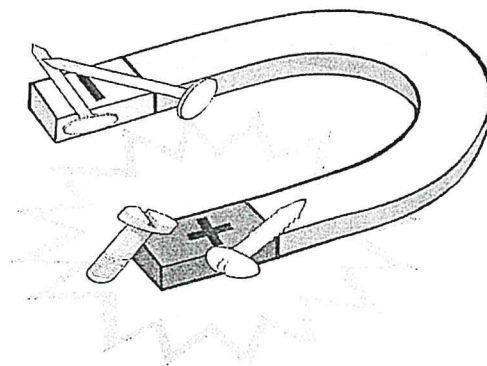
WORKING THE OPERATIONS OF A PROBLEM

ch 30

SIMPLIFYING SUBTRACTION PROBLEMS

YOU SIMPLIFY!

Simplify by working the operations of a problem.
Remember to group numbers together first!



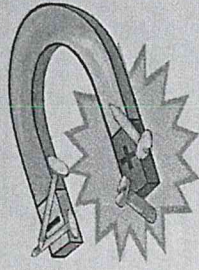
The Game: Simplify.
Write the answers in the blanks.

$5 + 5 + ^{-}5 = \underline{\hspace{2cm}}$	$2 + 8 + ^{-}3 = \underline{\hspace{2cm}}$
$2 + 2 + 2 + ^{-}3 = \underline{\hspace{2cm}}$	$10 + 20 + ^{-}5 = \underline{\hspace{2cm}}$
$9 + 4 + ^{-}4 = \underline{\hspace{2cm}}$	$10 + 75 + 5 = \underline{\hspace{2cm}}$
$50 + 50 + ^{-}10 = \underline{\hspace{2cm}}$	$+15 + ^{-}5 + 10 = \underline{\hspace{2cm}}$
$+30 + ^{-}1 + 2 = \underline{\hspace{2cm}}$	$23 + 7 + ^{-}10 = \underline{\hspace{2cm}}$



If you are working the operations of a problem, what are you doing?

Ch. 29

YOU SIMPLIFY!

Simplify by working the operations of a problem.
Remember to group numbers together first!

The Game: Simplify.
Write the answers in the blanks.

$5 + 5 + ^{-}5 =$ _____ $(5 + 5) + ^{-}5$ $10 - 5 = 5$	$2 + 8 + ^{-}3 =$ _____ $(2 + 8) + ^{-}3$ $10 - 3 = 7$
$2 + 2 + 2 + ^{-}3 =$ _____ $(2 + 2) + 2 + ^{-}3$ $(4 + 2) - 3$ $6 - 3 = 3$	$10 + 20 + ^{-}5 =$ _____ $(10 + 20) + ^{-}5$ $30 - 5 = 25$
$9 + 4 + ^{-}4 =$ _____ $(9 + 4) + ^{-}4$ $13 - 4 = 9$	$10 + 75 + 5 =$ _____ $(10 + 75) + 5$ $85 + 5 = 90$
$50 + 50 + ^{-}10 =$ _____ $(50 + 50) + ^{-}10$ $100 - 10 = 90$	$+15 + ^{-}5 + 10 =$ _____ $(15 - 5) + 10$ $10 + 10 = 20$
$+30 + ^{-}1 + 2 =$ _____ $(30 - 1) + 2$ $29 + 2 = 31$	$23 + 7 + ^{-}10 =$ _____ $(23 + 7) + ^{-}10$ $30 - 10 = 20$



If you are working the operations of a problem, what are you doing?

SIMPLIFYING

Ch. 30