

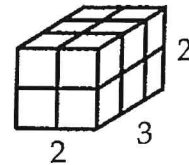
# MINUTE 6

NAME \_\_\_\_\_

1. 
$$\begin{array}{r} 92 \\ + 3 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 15 \\ \times 8 \\ \hline \end{array}$$

3. The volume of the shape is 12 cubic units.  
Circle: True or False



4.  $7 \overline{)42}^6$  Which number is the divisor? \_\_\_\_\_

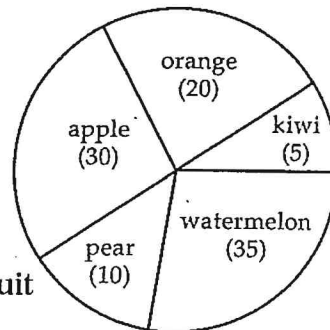
5. A quadrilateral has \_\_\_\_\_ sides and four angles.

6.  $4 \overline{)48}$

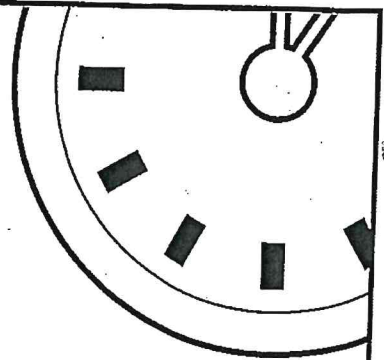
7. 
$$\begin{array}{r} 54 \\ - 2 \\ \hline \end{array}$$

Use the circle graph to complete questions 8–10.

Favorite Fruit



8. How many people said pears are their favorite fruit? \_\_\_\_\_ people
9. Which fruit is the most popular? \_\_\_\_\_
10. The number of people who said apples are their favorite fruit equals the sum of the number of people who said \_\_\_\_\_ and \_\_\_\_\_ are their favorite fruit.



# MINUTE 7

NAME \_\_\_\_\_

1. Write the fraction that names the shaded portion. \_\_\_\_\_



2. 
$$\begin{array}{r} 29 \\ -7 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 54 \\ +4 \\ \hline \end{array}$$

4. What is the perimeter of the shape? \_\_\_\_\_



5. 
$$6 \overline{)54}$$

6. The expanded form of 3,024 is \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_.

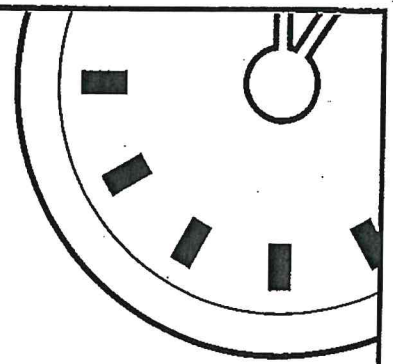
7. 
$$\begin{array}{r} 17 \\ \times 4 \\ \hline \end{array}$$

8. Identify the mean of the following numbers: 2, 4, 6. \_\_\_\_\_

For questions 9 and 10, circle the digit in the tens place.

9. 589

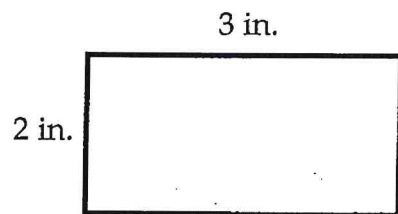
10. 546



# MINUTE 8

NAME \_\_\_\_\_

1. The area of the shape is 6 square inches.  
Circle: True or False



2. 
$$\begin{array}{r} 43 \\ + 7 \\ \hline \end{array}$$

3. 50 dimes = \_\_\_\_\_ dollars

4.  $12 + 25 =$

5. 
$$\begin{array}{r} 19 \\ \times 9 \\ \hline \end{array}$$

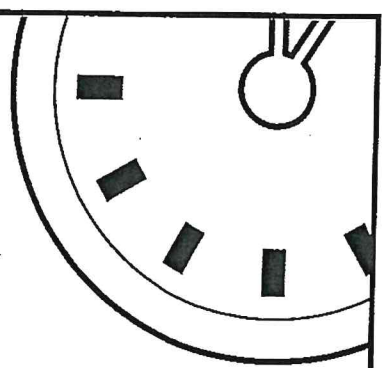
6. Sandy buys a box of chocolates. If the box costs \$2.00 and there are 8 chocolates in the box, how much does each chocolate cost? \_\_\_\_\_

7. 
$$\begin{array}{r} 84 \\ - 3 \\ \hline \end{array}$$

8. There are \_\_\_\_\_ minutes in 1 hour.

9.  $78 \times 100 =$

10. 
$$9 \overline{)81}$$



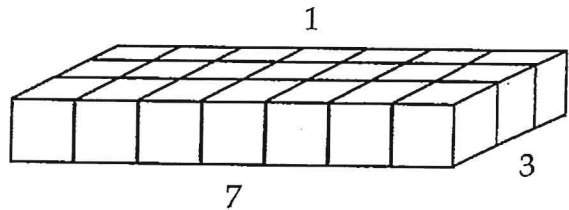
# MINUTE 9

NAME \_\_\_\_\_

1. Eleven is an odd number. Circle: True or False

2.  $8 \overline{)88}$

3. The volume of the shape is 21 cubic units.  
Circle: True or False



4. 
$$\begin{array}{r} 37 \\ + 2 \\ \hline \end{array}$$

5. A quadrilateral has \_\_\_\_\_ sides and \_\_\_\_\_ angles.

6. 
$$\begin{array}{r} 57 \\ - 6 \\ \hline \end{array}$$

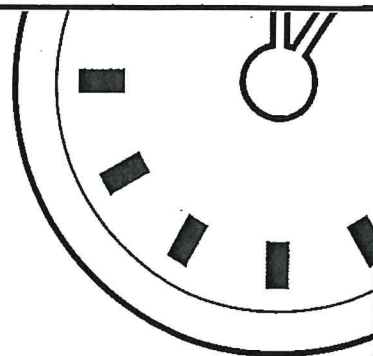
7. 
$$\begin{array}{r} 11 \\ \times 6 \\ \hline \end{array}$$

8. The expanded form of 103 is  $100 + \underline{\hspace{2cm}}$ .

For questions 9 and 10, write +, -, or x to make the sentence true.

9.  $17 - 4 \underline{\hspace{1cm}} 10 = 23$

10.  $56 + 2 \underline{\hspace{1cm}} 2 = 56$



# MINUTE 10

NAME \_\_\_\_\_

1. 
$$\begin{array}{r} 13 \\ \times 8 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 84 \\ + 5 \\ \hline \end{array}$$

3. 2, 4, \_\_\_\_\_, 8, 10, 12

4.  $30 \div 6 =$

5. 
$$\begin{array}{r} 58 \\ - 8 \\ \hline \end{array}$$

6. Identify the range of the following numbers: 2, 4, 8. \_\_\_\_\_

7. 
$$6 \overline{)36}$$

For questions 8–10, round the number to the nearest ten. Circle the answer.

8. 156:    100    150    160    200

9. 78:    70    80    90    100

10. 52:    40    50    55    60

5. 7
6. 69
7. 112
8.  $\frac{1}{2}$
9.  $\frac{1}{3}$
10.  $\frac{1}{5}$

Minute 5

1. False
2. 15
3. 63
4. \$4.50
5. 27
6. 9
7. 80
8. 108
9. 5
10. 7

Minute 6

1. 95
2. 120
3. True
4. 7
5. 4
6. 12
7. 52
8. 10
9. Apples
10. Oranges and pears

Minute 7

1.  $\frac{1}{3}$
2. 22
3. 58
4. 12
5. 9
6.  $3,000 + 20 + 4$
7. 68
8. 4
9. 8
10. 4

Minute 8

1. True
2. 50
3. \$5.00
4. 37
5. 171
6. .25
7. 81
8. 60
9. 7800
10. 9

Minute 9

1. True
2. 11
3. True
4. 39
5. 4sides, 4 angles
6. 51
7. 66
8. 3
9. +
10. -

Minute 10

1. 104
2. 89
3. 6
4. 5
5. 50
6. 6
7. 6
8. 150
9. 80
10. 50

Minute 11

1. 4
2. 90 degrees
3. 28.75
4. 51
5. 45
6. 854

# MEDIAN

Median means middle.

## Break It Down:

The median is the middle value in a list of numbers.

3, 6, 3, 4, 1, 2  
1, 2, 3, 3, 4, 6

List the numbers in order. →  
How many numbers are in the list? → 6  
Is 6 odd or even? → even  
What are the two middle numbers? → 3, 3  
Average the two middle numbers. →  $3 + 3 = 6$   
 $6 \div 2 = 3$   
The median → 3



3, 6, 3, 4, 1  
1, 3, 3, 4, 6

List the numbers in order. →  
How many numbers are in the list? → 5  
Is 5 odd or even? → odd  
What is the middle number? → 3  
The median → 3

## The Game: Fill in the blanks.

5, 1, 3, 6  
1, \_\_\_\_\_, 5, 6

List the numbers in order. →  
How many numbers? → 4  
Is 4 odd or even? → \_\_\_\_\_  
What are the two middle numbers? → 3, 5  
Average the two middle numbers. →  $3 + 5 =$  \_\_\_\_\_  
 $8 \div 2 = 4$   
The median → 4

5, 1, 5, 4, 1  
1, \_\_\_\_\_, 4, 5, 5

List the numbers in order. →  
How many numbers are in the list? → \_\_\_\_\_  
Odd or even? → odd  
What is the middle number? → 4  
The median → \_\_\_\_\_



# MIDDLE VALUE

The middle value is the median.

## Break It Down:

List the numbers in order. →

How many numbers in the list? →

Odd or even? →

What are the two middle numbers? →

Average the two middle numbers. →

The median →

8, 2, 6, 1

1, 2, 6, 8

4

even

2, 6

$2 + 6 = 8$

$8 \div 2 = 4$

4



List the numbers in order. →

How many numbers in the list? →

Odd or even? →

What is the middle number? →

The median →

8, 2, 6, 1, 1

1, 1, 2, 6, 8

5

odd

2

2

## The Game: Fill in the blanks.

Four friends gave money to a pet shelter. Kate gave \$12.00, Finn gave \$15.00, Sara gave \$1.00, and Rey gave \$ 12.00.

What is the median amount of money given? \_\_\_\_\_

Eva drove her grandmother somewhere each day.

Monday 10 miles

Tuesday 20 miles

Wednesday 5 miles

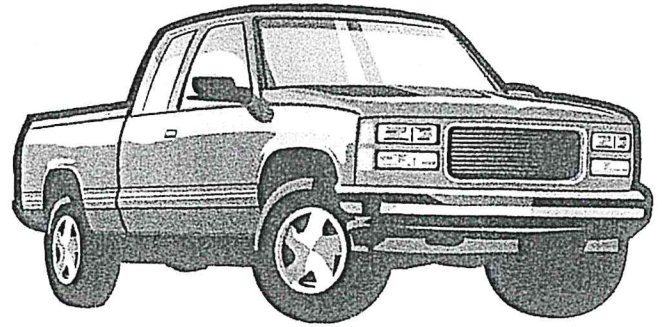
Thursday 20 miles

Friday 20 miles

What is the median number of miles Eva drove? \_\_\_\_\_

## MEDIAN IS BETTER

Sometimes the median gives better information than the mean.



### Break It Down:

Joe wants to buy a used truck. There are four trucks at Mr. Good's Car Sales.

Ford	\$ 200.00
Toyota	\$2,000.00
Dodge	\$2,000.00
GMC	\$2,000.00

The mean is \$1550.00.

Find the median.

List the numbers in order. → 200, 2,000, 2,000, 2,000

How many numbers in the list? → 4 (even)

What are the two middle numbers? → 2,000, 2,000

Average the two middle numbers. →  $2,000 + 2,000 = 4,000$

$$4,000 \div 2 = 2,000$$

The median → \$2,000.00

Look at the prices of the trucks. How much can Joe expect to pay for a truck? Check the answer that makes sense:

the mean: \$1550.00       the median: \$2,000.00

Why do you think the Ford is so cheap? \_\_\_\_\_

### The Game: Fill in the blanks.

What can you expect a used car to cost? Look at the prices at Mr. Good's.

Honda	\$1,000.00	
Chevy	\$1,000.00	
GMC	\$1,000.00	
Kia	\$ 200.00	The mean is \$800.00.

Find the median.

List the numbers in order. → 200, 1,000, 1,000, 1,000

How many numbers? → 4 (even)

Average the two middle numbers. →  $1,000 + 1,000 = 2,000$

middle numbers. →  $2,000 \div 2 = 1,000$

The median → \$\_\_\_\_\_.

# SKEW

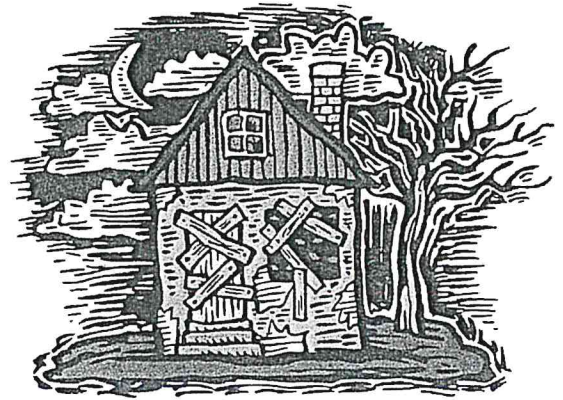
Skew sounds like phew! A skew can make your data stink!

## Break It Down:

Using the median can save the day.

Five houses on a street sold at the same time.

	Sale price
Brick house	\$110K
Stone house	\$110K
Ratty dump	\$ 20K
Wood house	\$105K
Block house	\$100K



*FYI: K means thousand.*

Look at the sales prices. Houses usually sell for over \$100K.

The mean is \$89K. The mean gives the wrong idea that you can buy a house for \$89K. The mean is so low because the ratty dump sold for only \$20K. That low number skewed the report.

Find the median.

List the numbers in order. → 20, 100, 105, 110, 110

How many numbers? → \_\_\_\_\_ (odd)

The median → 105K                      The median is \$\_\_\_\_\_.

How much can you expect to pay for a house on this street? Check the answer that makes sense:      the mean: \$89K                       the median: \$105K

Which house would you not buy? \_\_\_\_\_

### The Game: Underline the number that skews the list.

1. \$550, \$520, \$100, \$530, \$500
2. 100°, 100°, 105°, 10°, 110°
3. \$75, \$25, \$30, \$20, \$35
4. 30°, 3°, 34°, 36°, 32°
5. 70°, 60°, 65°, 20°

## USING DATA

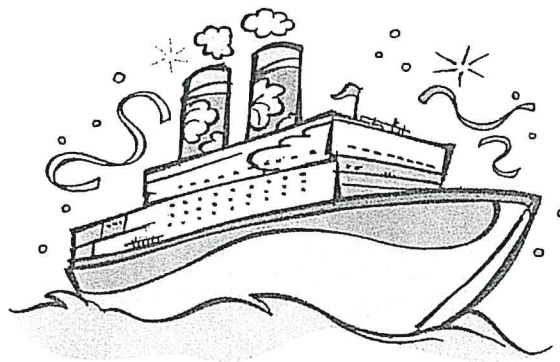
Use data to make smart decisions.

### Break It Down:

Look at the mean and the median.

You want to go on vacation for three days.

	Price
Ocean cruise	\$700.00
Mom's basement	\$ 20.00
Las Vegas	\$700.00
Beach house	\$600.00
Disney World	\$600.00



The mean is \$524.00.

Does it look like \$524.00 is the normal amount to pay for a vacation? \_\_\_\_\_

Which vacation is skewing the numbers? \_\_\_\_\_

Find the median.

List the numbers in order. → 20, 600, 600, 700, 700

How many numbers? → \_\_\_\_\_ (odd)

The median → \_\_\_\_\_ The median is \$\_\_\_\_\_.00.

Check the answer that makes sense.  the mean  the median

### The Game: Find the mean. Find the median.

Four women took the driver's license test.

	Age
Asia	16
Kay	16
Ali	18
Sally	50

What is the mean age? \_\_\_\_\_

What is the median age? \_\_\_\_\_

Check the answer that makes sense:  the mean  the median

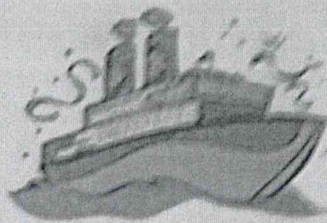
Why? \_\_\_\_\_  
\_\_\_\_\_

### USING DATA

Use data to make smart decisions.

#### Break It Down:

Look at the mean and the median.



You want to go on vacation for three days.

	Price
Ocean cruise	\$700.00
Mom's basement	\$ 20.00
Las Vegas	\$700.00
Beach house	\$600.00
Disney World	\$600.00

The mean is \$524.00.

Does it look like \$524.00 is the normal amount to pay for a vacation? NO

Which vacation is skewing the numbers? MOM'S BASEMENT \$20.00

Find the median.

List the numbers in order. → 20, 600, 600, 700, 700

How many numbers? → 5 (odd)

The median → 600 The median is \$ 600.00

Check the answer that makes sense.  the mean  the median

#### The Game: Find the mean. Find the median.

Four women took the driver's license test.

	Age
Asia	16
Kay	16
Ali	18
Sally	50

What is the mean age? 25

What is the median age? 17

Check the answer that makes sense:  the mean  the median

Why? MOST OF THE WOMEN WERE ABOUT 17 YEARS OLD. 50 SKEWS THE DATA. ANSWERS WILL VARY.

Ch 27

### MOST OFTEN

The mode is the number that occurs most frequently.

#### Break It Down:

Put the numbers in order. The number that occurs most often is the mode.



### SKEW

Skew sounds like phawl! A skew can make your data stink!

#### Break It Down:

Using the median can save the day. Five houses on a street sold at the same time.

	Sale price
Brick house	\$110K
Stone house	\$110K
Ratty dump	\$ 20K
Wood house	\$105K
Block house	\$100K



FYI: K means thousand

Look at the sales prices. Houses usually sell for over \$100K. The mean is \$89K. The mean gives the wrong idea that you can buy a house for \$89K. The mean is so low because the ratty dump sold for only \$20K. That low number skewed the report.

Find the median.

List the numbers in order. → 20, 100, 105, 110, 110

How many numbers? → 5 (odd)

The median → 105K      The median is \$ 105K

How much can you expect to pay for a house on this street? Check the answer that makes sense:  the mean: \$89K       the median: \$105K

Which house would you not buy? ANSWERS WILL VARY

The Game: Underline the number that skews the list.

- \$550, \$520, \$100, \$530, \$500
- 100°, 100°, 105°, 10°, 110°
- \$75, \$25, \$30, \$20, \$36
- 30°, 3°, 34°, 36°, 32°
- 70°, 60°, 65°, 20°

### MODE

The mode is the number you see most often.

#### Break It Down:

Finding the mode is super easy. Put the numbers in order. The number that occurs



5, 1, 6, 4, 1  
 List the numbers in order → 1, 1, 4, 5, 6  
 How many numbers are in the list? → 5  
 Odd or even? → odd  
 What is the middle number? → 4  
 The median → 4

### MEDIAN IS BETTER

Sometimes the median gives better information than the mean.



#### Break It Down:

Joe wants to buy a used truck. There are four trucks at Mr. Good's Car Sales.

Ford	\$ 200.00
Toyota	\$2,000.00
Dodge	\$2,000.00
GMC	\$2,000.00

The mean is \$1550.00.

Find the median.

List the numbers in order. → 200, 2,000, 2,000, 2,000  
 How many numbers in the list? → 4 (even)  
 What are the two middle numbers? → 2,000, 2,000  
 Average the two middle numbers. →  $2,000 + 2,000 = 4,000$   
 $4,000 \div 2 = 2,000$   
 The median → \$2,000.00

Look at the prices of the trucks. How much can Joe expect to pay for a truck? Check the answer that makes sense.

the mean: \$1550.00     the median: \$2,000.00

Why do you think the Ford is so cheap? ANSWERS WILL VARY

#### The Game: Fill in the blanks.

What can you expect a used car to cost? Look at the prices at Mr. Good's.

Honda	\$1,000.00	
Chevy	\$1,000.00	
GMC	\$1,000.00	
Kia	\$ 200.00	The mean is \$800.00.

Find the median.

List the numbers in order. → 200, 1,000, 1,000, 1,000  
 How many numbers? → 4 (even)  
 Average the two middle numbers. →  $1,000 + 1,000 = 2,000$   
 $2,000 \div 2 = 1,000$   
 The median → \$ 1,000.00

UNIT 5

What is the average of a set of numbers?

MEAN

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Ch. 2.10

MIDDLE VALUE

The middle value is the median.

Break It Down:

List the numbers in order. →

8, 2, 6, 1

How many numbers in the list? →

1, 2, 6, 8

Odd or even? →

4

What are the two middle numbers? →

even

Average the two middle numbers. →

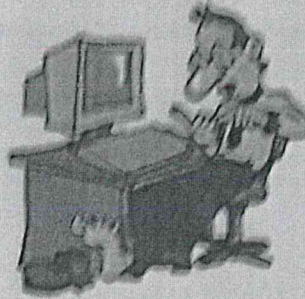
2, 6

$2 + 6 = 8$

$8 \div 2 = 4$

The median →

4



List the numbers in order. →

8, 2, 6, 1, 1

How many numbers in the list? →

1, 1, 2, 6, 8

Odd or even? →

5

What is the middle number? →

odd

The median →

2

2

The Game: Fill in the blanks.

Four friends gave money to a pet shelter. Kate gave \$12.00, Finn gave \$15.00, Sara gave \$1.00, and Rey gave \$ 12.00.

What is the median amount of money given? \$12.50

1.00, 12.00, 12.00, 15.00

4, EVEN

$12.00 + 12.00 = 24.00$

$24.00 \div 2 = 12.00$

Eva drives her grandmother somewhere each day.

Monday 10 miles

Tuesday 20 miles

Wednesday 5 miles

Thursday 20 miles

Friday 20 miles

5, 10, 20, 20, 20

5, ODD

What is the median number of miles Eva drives? 20

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UNIT 5



### MEDIAN

Median means middle.

#### Break It Down:

The median is the middle value in a list of numbers.

- List the numbers in order. → 3, 6, 3, 4, 1, 2
- How many numbers are in the list? → 1, 2, 3, 3, 4, 6
- Is 6 odd or even? → 6
- What are the two middle numbers? → even
- Average the two middle numbers. → 3, 3
- The median →  $3 + 3 = 6$   
 $6 \div 2 = 3$   
3

- List the numbers in order. → 3, 6, 3, 4, 1
- How many numbers are in the list? → 1, 3, 3, 4, 6
- Is 5 odd or even? → 5
- What is the middle number? → odd
- The median → 3

#### The Game: Fill in the blanks.

- List the numbers in order. → 5, 1, 3, 6
- How many numbers? → 1, 3, 5, 6
- Is 4 odd or even? → 4
- What are the two middle numbers? → EVEN 3, 5
- Average the two middle numbers. →  $3 + 5 = \underline{8}$
- The median →  $8 \div 2 = 4$   
4

- List the numbers in order. → 5, 1, 5, 4, 1
- How many numbers are in the list? → 1, 1, 4, 5, 5
- Odd or even? → 5
- What is the middle number? → odd
- The median → 4

### MEDIAN IS BETTER

Sometimes the median gives better information than the mean.