

Name: \_\_\_\_\_

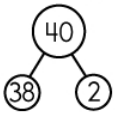
Mental Math  
Regrouping

The **SHOUTY SUMS** are performing TONIGHT. Fans are streaming into the arena. The lead singer, Sid Sum, would like some black jelly beans in his dressing room immediately. Also, he wants to know how many people are in the front rows. Use mental math to solve each equation. (And don't forget the black jelly beans.) **ROCK ON!**

ROW A



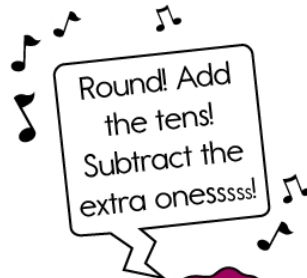
Number  
bonds  
can help!



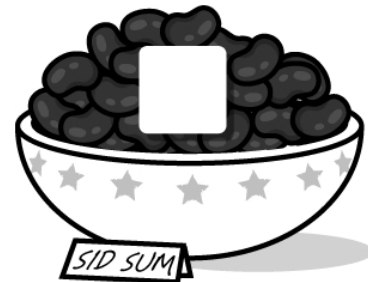
$$38 + 47 = ?$$

$$40 + 47 = 87$$

$$87 - 2 = \underline{\quad}$$



There are 2 big bags of jelly beans. One bag has 39 black jelly beans. The other bag has 45 black jelly beans. How many black jelly beans are there for Sid Sum? Write the number in the jelly beans below.



**BONUS:**

If there are 16 more pink jelly beans than black, how many pink jelly beans are there?

ROW C



$$29 + 56 = \underline{\quad}$$

ROW D

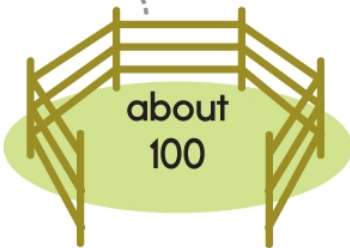
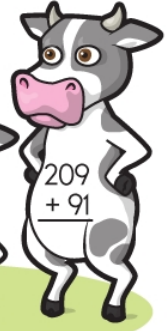
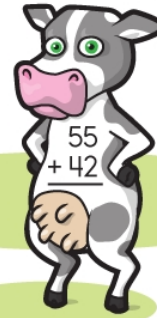
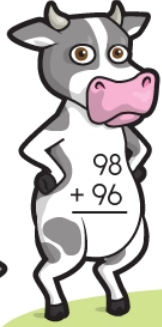
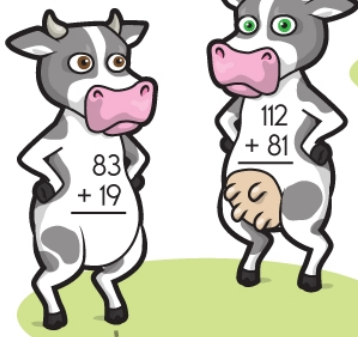


$$18 + 71 = \underline{\quad}$$

Name: \_\_\_\_\_

# ESTIMATION

Well, howdy partner! Today we're roundin' up the cattle. Help me get each cow into the correct pen using estimation.



Where do baby cows eat lunch?

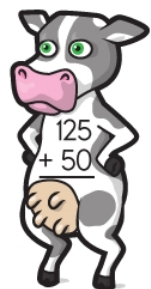
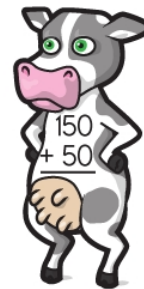
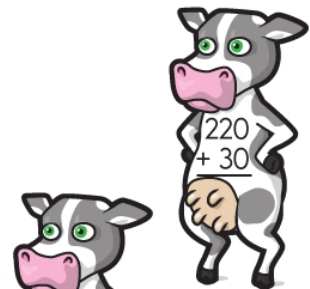
At the 2 1 6 4 - 3 8 3 7 5 1!

KEY:

- 1 - A
- 2 - C
- 3 - E
- 4 - F
- 5 - I
- 6 - L
- 7 - R
- 8 - T



Yee-haw! Now let's use **mental math** to get these lil' dogies back to their mamas.



**Name:** \_\_\_\_\_

At the pool, Sara took a long pole that is 1,539 millimeters and stood in the pool. Her friend Sarah measured how much of the pole was still sticking out of the water. She measured 477 millimeters. Round these numbers to the nearest ten. About how many millimeters of the pole is in the water?

Megan is making face masks for her friends. She went to the store and thinks that she needs 346 centimeters of fabric to make enough face masks. She also needs 412 centimeters of fabric for other projects. Round each number to the nearest ten and then add them together. How much fabric should she buy?

Two numbers are rounded to the nearest hundred. The sum of the numbers after rounding is 1700. One of the numbers is 800. What is the greatest possible value of the other number?

A 3-digit number rounded to the nearest ten has the same value as when it is rounded to the nearest hundred. Can you come up with a number like this?

Name: \_\_\_\_\_

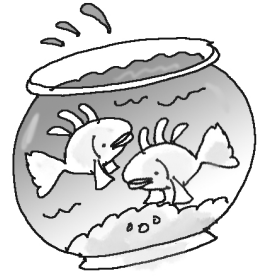
Use rounding to add or subtract for an adequate answer.

Example:

$691 + 247 = \underline{938}$

691 is near 700, and 247 is near 200.

$\underline{700} + \underline{200} = \underline{900}$

Therefore, 938 is near 900 and is adequate.

$735 - 498 = \underline{\quad}$

735 is near       , and 498 is near       .

+ =

# PREVIEW

Join [edHelper.com](https://edHelper.com) for full access.

$867 - 387 = \underline{\quad}$

867 is near       , and 387 is near       .

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

Therefore,        is near        and is adequate.

$627 + 354 = \underline{\quad}$

627 is near       , and 354 is near       .

$\underline{\quad} + \underline{\quad} = \underline{\quad}$


Therefore,        is near        and is adequate.






Name: \_\_\_\_\_

Mental Math  
Tens & Ones  
Without Regrouping

# Mental Math



$$58 + 21 = \underline{\quad}$$




$50 + 20 = 70$   
 $70 + 8 = 78$   
 $78 + 1 = \underline{\quad}$

Add the tens first  
then add the ones.



$$32 + 65 = \underline{\quad}$$

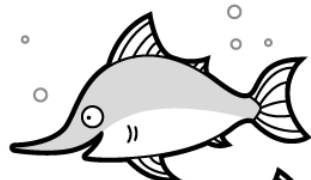


## PREVIEW

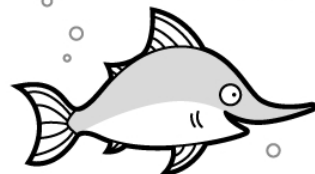
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$$13 + 43 = \underline{\quad}$$



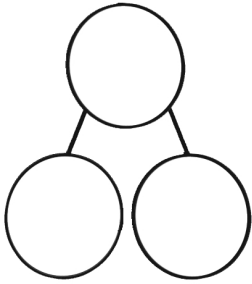
$$71 + 14 = \underline{\quad}$$



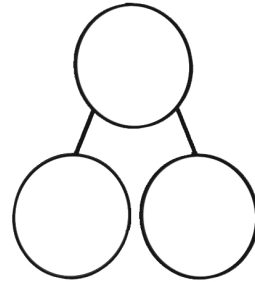
Name: \_\_\_\_\_

Mentally add these numbers. Making number bonds will help.

$48 + 49 = \underline{\quad}$

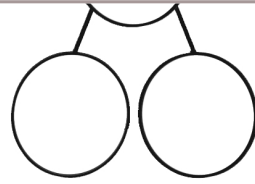
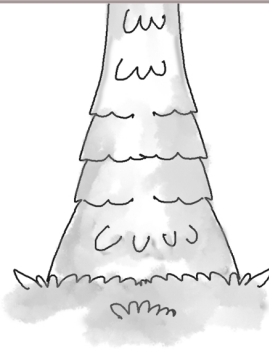
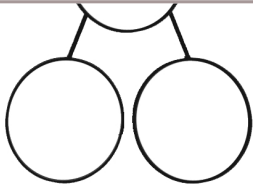


$29 + 63 = \underline{\quad}$

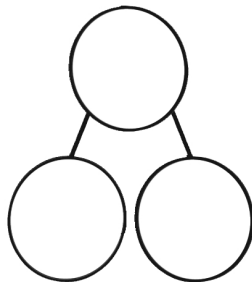


# PREVIEW

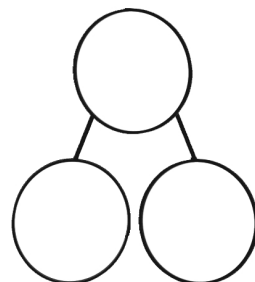
Join [edHelper.com](https://edHelper.com) for full access.



$12 + 38 = \underline{\quad}$



$55 + 64 = \underline{\quad}$



Name: \_\_\_\_\_

Parts

Whole

39

6

39 and 6  
make \_\_\_\_.

Parts

Whole

35

9

35 and 9  
make \_\_\_\_.

Parts

Whole

38

9

38 and 9  
make \_\_\_\_.

Parts

Whole

41

7

41 and 7  
make \_\_\_\_.

# PREVIEW

Join [edHelper.com](https://edHelper.com) for full access.

Parts

Whole

14

10

14 and 10  
make \_\_\_\_.

Parts

Whole

34

2

34 and 2  
make \_\_\_\_.

Parts

Whole

2

38

2 and 38  
make \_\_\_\_.

Parts

Whole

14

14

14 and 14  
make \_\_\_\_.

Name: \_\_\_\_\_

Parts

Whole

8

90

8 and 90  
make \_\_\_\_.

Parts

Whole

5

50

5 and 50  
make \_\_\_\_.

Parts

Whole

60

15

60 and 15  
make \_\_\_\_.

Parts

Whole

82

2

82 and 2  
make \_\_\_\_.

# PREVIEW

Join [edHelper.com](https://edHelper.com) for full access.

Parts

Whole

25

30

36

25 and 30  
make \_\_\_\_.

Parts

Whole

57

25

57 and 25  
make \_\_\_\_.

Parts

Whole

58

27

58 and 27  
make \_\_\_\_.

Parts

Whole

19

35

19 and 35  
make \_\_\_\_.

Name: \_\_\_\_\_

**FUN  
BREAK!**

# Play a game online!

[edHelper.com/math-games.htm](http://edHelper.com/math-games.htm)**I PLAYED  
ONE  
GAME****MY SCORE**

## PREVIEW

Join [edHelper.com](http://edHelper.com) for full access.

$$\begin{array}{r} 359 \\ - 62 \\ \hline \end{array}$$

18, \_\_\_\_\_, 36, 45, 54, 63

It is 8:49 when Emily leaves her house. She arrives at school at 9:09. How much time has passed?

$$\begin{array}{r} 76 \\ + 6 \\ \hline \end{array}$$

Make your own equation.

\_\_\_\_\_ + 6 = \_\_\_\_\_

47, 63, 79, \_\_\_\_\_, 111, 127,  
143, 159, 175, 191

$15 - 9 = \boxed{\phantom{00}}$

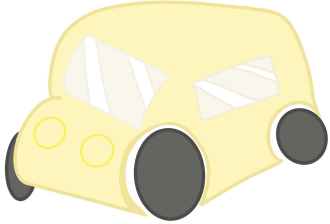
$1 + 5 = \boxed{\phantom{00}}$

$3 + 5 = \boxed{\phantom{00}}$

$9 - 5 = \boxed{\phantom{00}}$

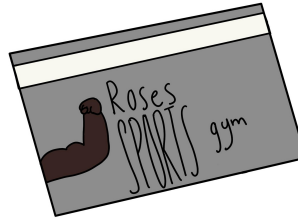
Name: \_\_\_\_\_

Max and Sarah are racing their electric cars on a homemade race track in their backyard. Max charged his car and estimates it will last 875 seconds before running out of juice. Sarah has a newer version of the car and thinks her car will last 934 seconds. Round the seconds to the nearest ten. Whose car will last the longest and by how much?



Anne owns a sports gym, but she is very secretive. When asked how many members she has, she only replied that when rounded to the nearest hundred, the number of members is 1,400. What is the greatest possible number of members her sports gym could have?

What is the least possible number of members her sports gym could have?

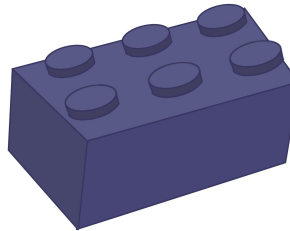


# PREVIEW

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The city bake sale raised \$28,609.38 on Monday, \$16,989.35 on Tuesday, and \$47,966.37 on Wednesday. About how much did they raise?

Students made the block tower 210 millimeters taller. Round the numbers to the nearest ten. About how tall is the tower now?





Name: \_\_\_\_\_

**Mental Math**  
★ Subtraction ★  
With Regrouping

The **SHOUTY SUMS** are halfway through their greatest performance of ALL TIME. Slash Sum is playing an **EPIC** bass solo, but he won't stop playing until he has at least half of the audience cheering for him. Solve the equations using mental math so Slash can finish his solo. Hurry, his band mates are getting jealous!



ROW E



Number  
bonds  
can help!

50

total  
fans

$$95 - 47 = ?$$

$$95 - 50 = 45$$

cheering  
fans

Round! Subtract  
the tens! Add  
the extra

# PREVIEW

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$$84 - 46 = \underline{\quad}$$



ROW G



$$78 - 29 = \underline{\quad}$$

**BONUS:**

Looking at rows **E** through **H**, did Slash Sum get enough people cheering to finish his solo?

Show off...



ROW H



$$91 - 47 = \underline{\quad}$$

Name: \_\_\_\_\_

Subtract mentally the tens, then subtract the ones.

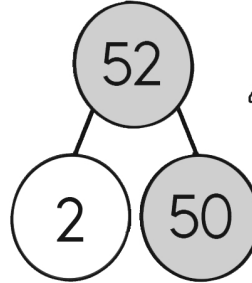
Example:

$84 - 52 = ?$

$84 - 50 = \underline{34}$

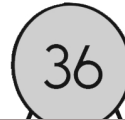
$\underline{34} - \underline{2} = \underline{32}$

Means  $84 - 52 = \underline{32}$



$79 - 36 = ?$

$79 - 30 = \underline{\quad}$



# PREVIEW

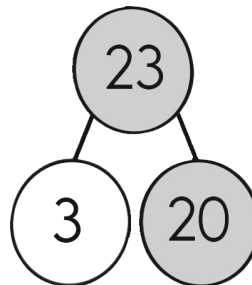
Join [edHelper.com](https://edHelper.com) for full access.

$57 - 23 = ?$

$57 - 20 = \underline{\quad}$

$\underline{\quad} - \underline{\quad} = \underline{\quad}$

Means  $57 - 23 = \underline{\quad}$

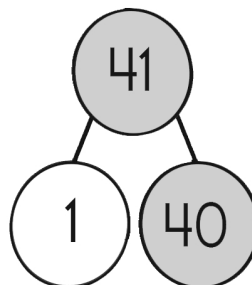


$68 - 41 = ?$

$68 - 40 = \underline{\quad}$

$\underline{\quad} - \underline{\quad} = \underline{\quad}$

Means  $68 - 41 = \underline{\quad}$



Name: \_\_\_\_\_

Parts

Whole

15

27

15 and \_\_\_\_\_  
make 27.

Parts

Whole

48

45

\_\_\_\_\_ and 45  
make 48.

Parts

Whole

33

38

33 and \_\_\_\_\_  
make 38.

Parts

Whole

33

4

\_\_\_\_\_ and 4  
make 33.

# PREVIEW

Join [edHelper.com](https://edHelper.com) for full access.

Parts

Whole

32

14

\_\_\_\_\_ and 14  
make 32.

Parts

Whole

31

25

\_\_\_\_\_ and 25  
make 31.

Parts

Whole

46

41

\_\_\_\_\_ and 41  
make 46.

Parts

Whole

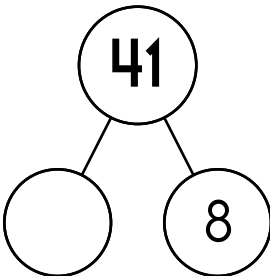
22

3

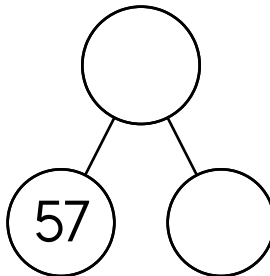
3 and \_\_\_\_\_  
make 22.

Name: \_\_\_\_\_

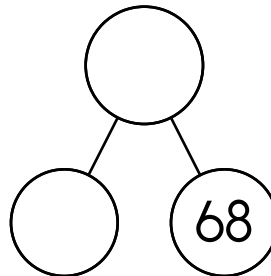
Pick from the numbers to complete each number bond.



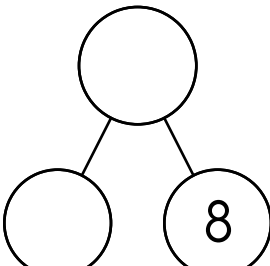
33  
33  
33  
34



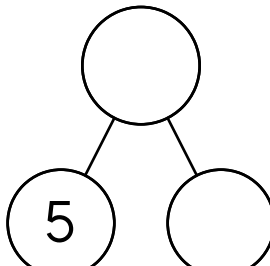
6  
65  
62  
63



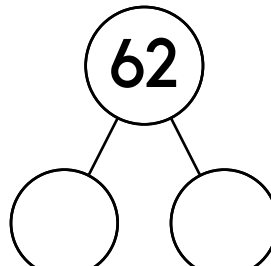
11  
79  
34  
31



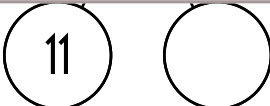
29  
28  
27  
36



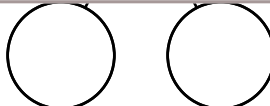
52  
54  
53  
48




8  
6  
33  
29

**PREVIEW**Join [edHelper.com](https://edHelper.com) for full access.


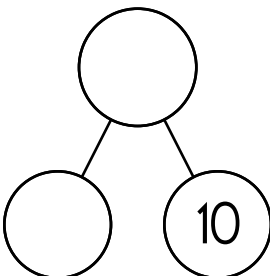
10  
35



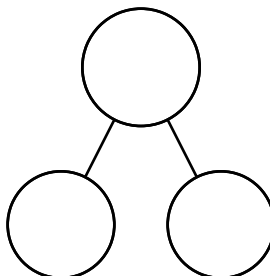
24  
24



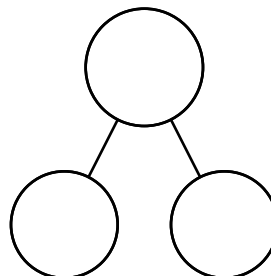
21



54  
54  
56  
44



58  
14  
78  
20  
20

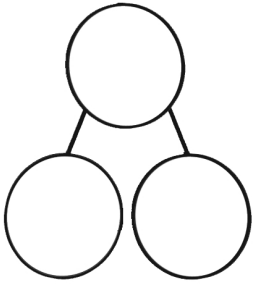


7  
56  
48  
53  
55

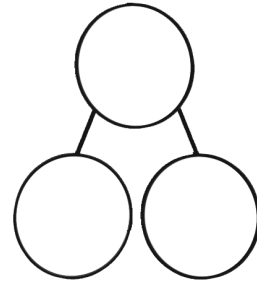
Name: \_\_\_\_\_

Mentally subtract these numbers. Making number bonds will help.

$51 - 24 = \underline{\quad}$

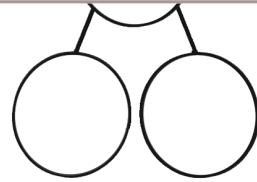
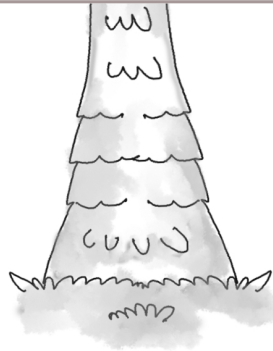
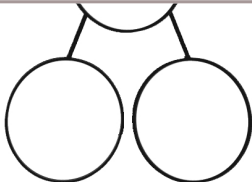


$88 - 54 = \underline{\quad}$

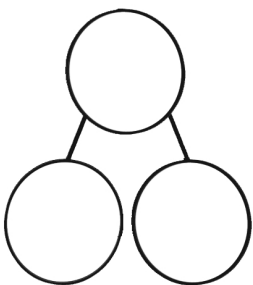


# PREVIEW

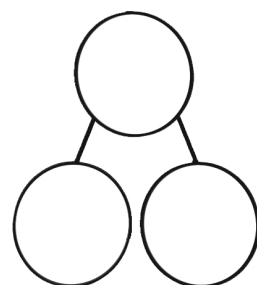
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$93 - 76 = \underline{\quad}$



$72 - 57 = \underline{\quad}$



Name: \_\_\_\_\_

Add mentally the tens, then add the ones.

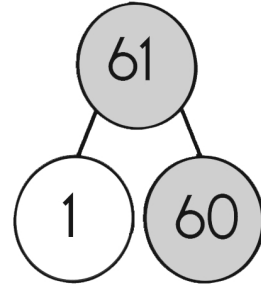
Example:

$36 + 61 = ?$

$36 + 60 = \underline{96}$

$\underline{96} + \underline{1} = \underline{97}$

Means  $36 + 61 = \underline{97}$ .



$45 + 59 = ?$

$45 + 50 = \underline{\hspace{2cm}}$



# PREVIEW

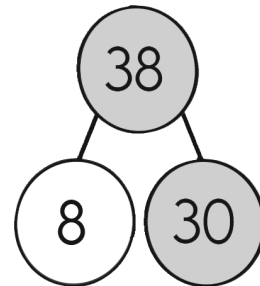
Join [edHelper.com](https://edHelper.com) for full access.

$27 + 38 = ?$

$27 + 30 = \underline{\hspace{2cm}}$

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

Means  $27 + 38 = \underline{\hspace{2cm}}$ .

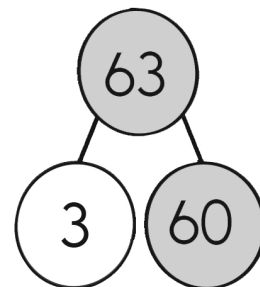


$54 + 63 = ?$

$54 + 60 = \underline{\hspace{2cm}}$

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

Means  $54 + 63 = \underline{\hspace{2cm}}$ .





Name: \_\_\_\_\_

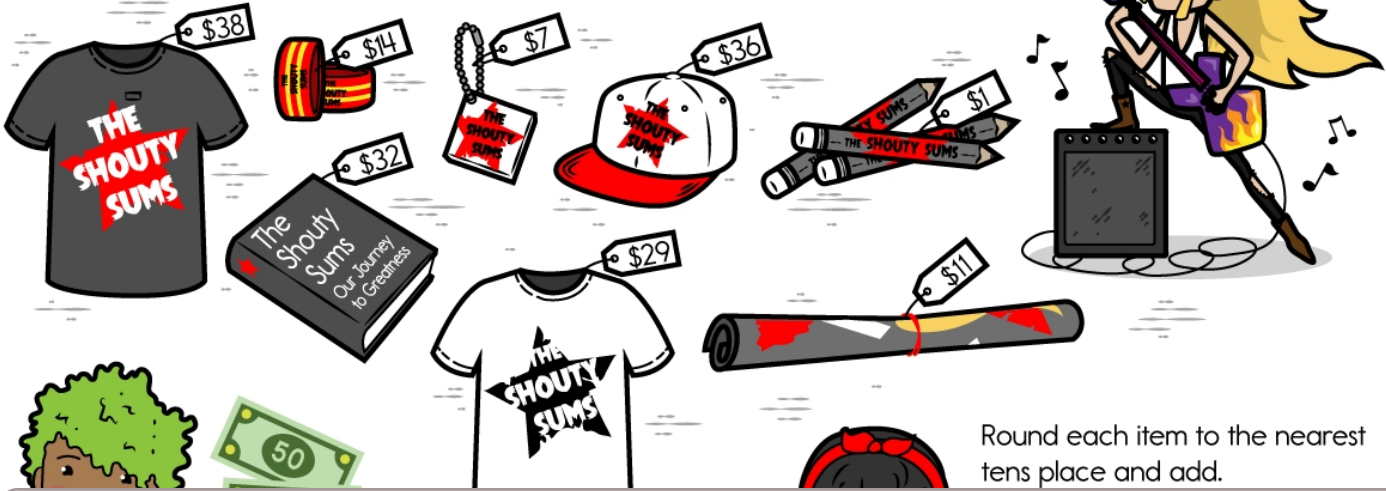
Rounding

★ Addition ★



The **SHOUTY SUMS** just finished their big, loud, spectacular show. Fans are rushing to the back of the arena to get their hands on some sweet Shouty Sums merch. Round, add, and compare to help Enzo, Pearl, and Weston buy the items they want. Hurry! Things are selling out fast.

Round each item to the nearest tens place and just add, man.



Round each item to the nearest tens place and add.

# PREVIEW

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\_\_\_\_\_ black T-shirt

\$\_\_\_\_\_ pencil

\$\_\_\_\_\_ key chain

\$\_\_\_\_\_ poster

\$

total

Now find the exact total.

\$\_\_\_\_\_ black T-shirt

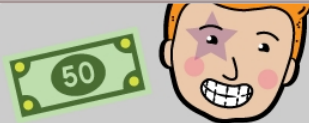
\$\_\_\_\_\_ pencil

\$\_\_\_\_\_ key chain

\$\_\_\_\_\_ poster

\$

total



Weston has **exactly** the right amount of money to buy two things. Which two things is he buying?

\_\_\_\_\_

\_\_\_\_\_

Does Enzo have enough money?

\_\_\_\_\_

Does Enzo have money left over? How much?

\$ \_\_\_\_\_

\$\_\_\_\_\_ sweat bands

\$

total

Now find the exact total.

\$\_\_\_\_\_ white T-shirt

\$\_\_\_\_\_ book

\$\_\_\_\_\_ hat

\$\_\_\_\_\_ sweat bands

\$

total

Does Pearl have enough money? \_\_\_\_\_

Name: \_\_\_\_\_

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.

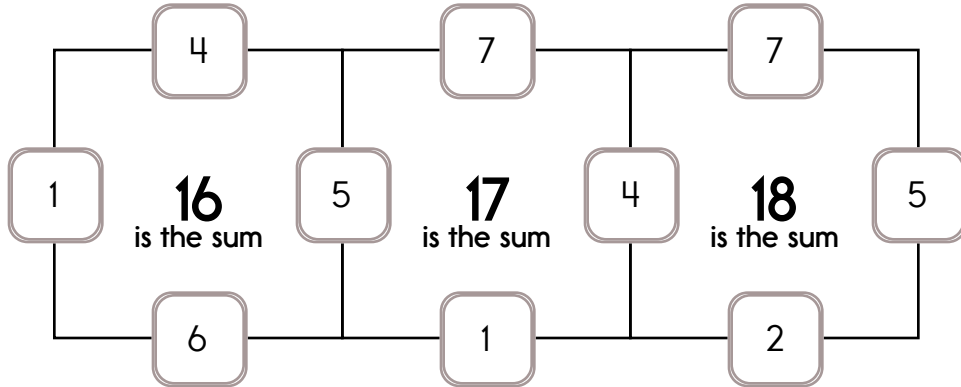
Example:

$$1 + 5 + 4 + 6 = 16$$

Example:

$$4 + 5 + 7 + 2 = 18$$

Sample:



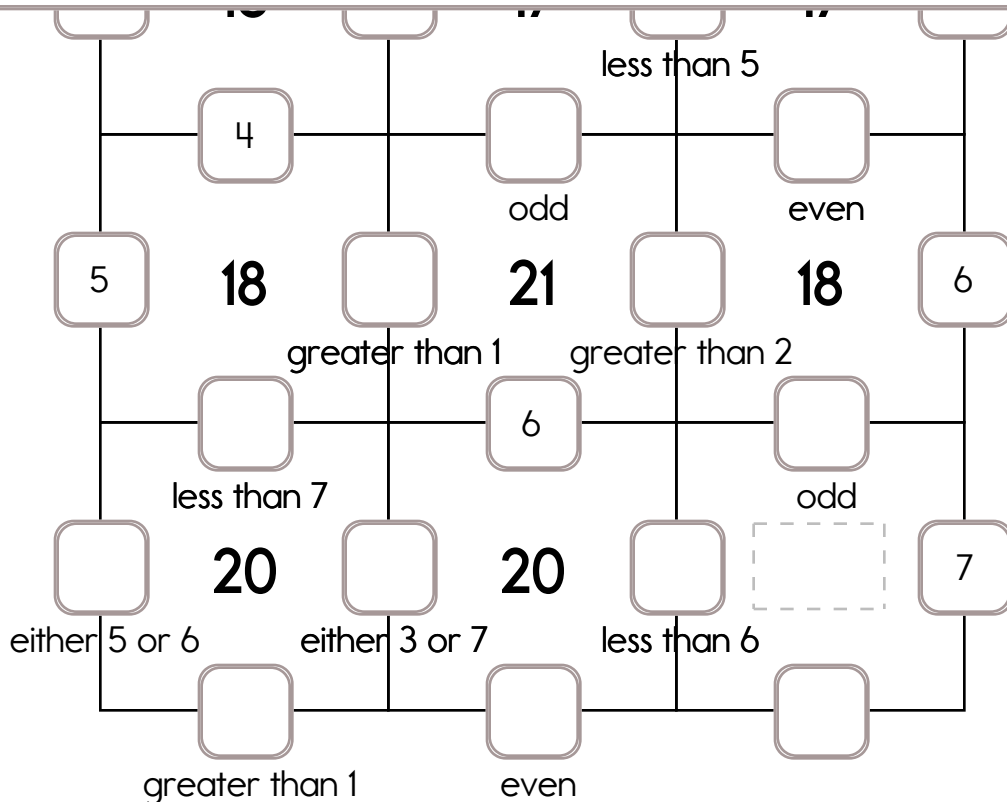
Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square.

Exactly one of the four numbers has to be one of these numbers: 1, 2, or 3.

The other three numbers have to all be DIFFERENT and must be from these: 4, 5, 6,

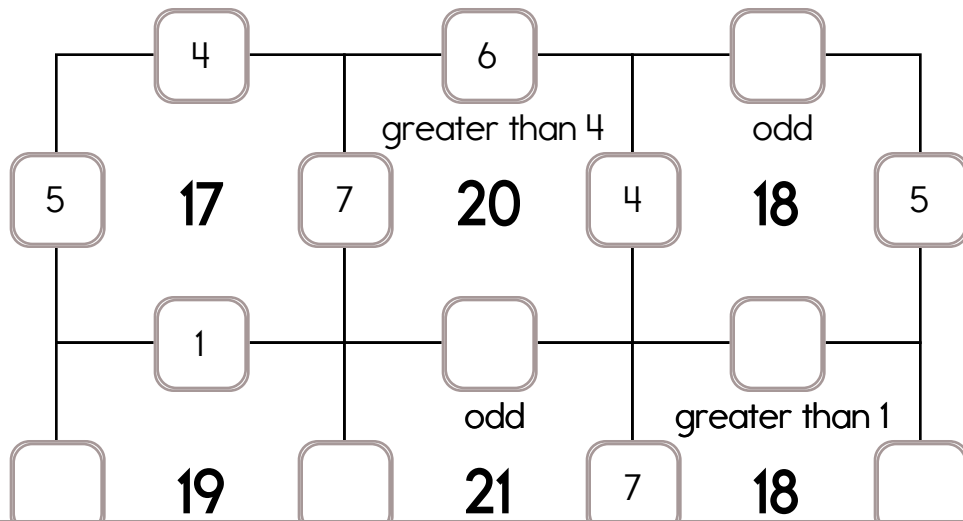
# PREVIEW

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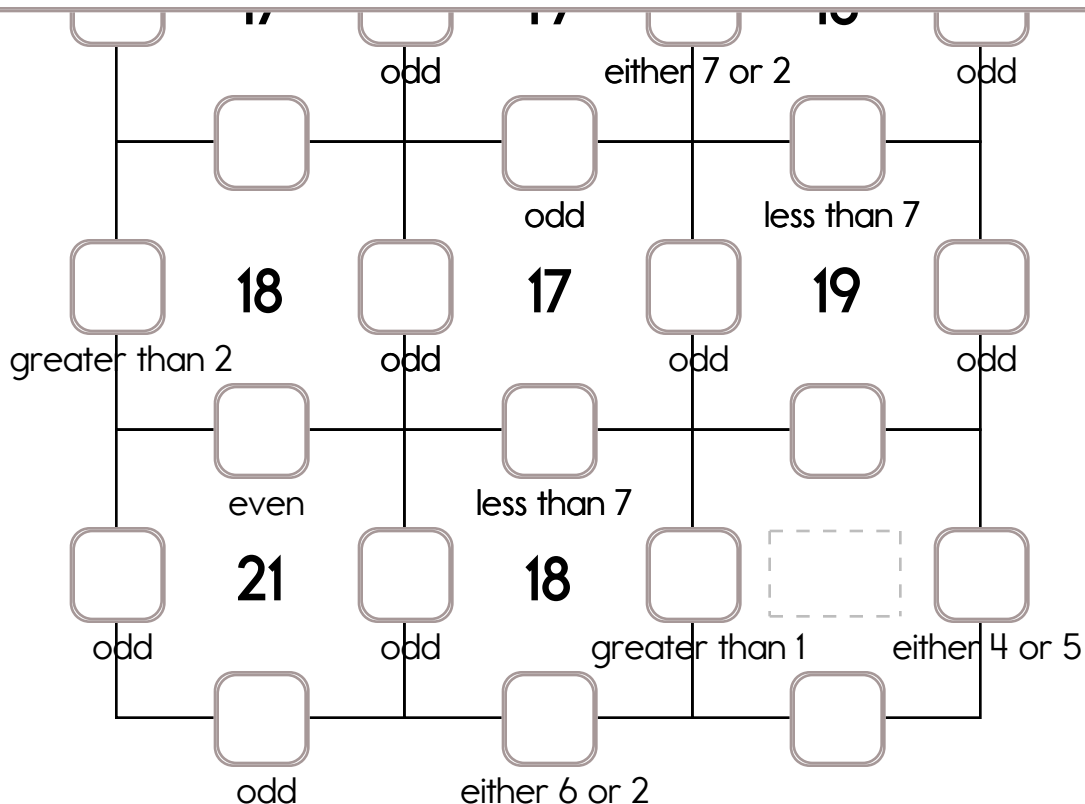
Exactly one of the four numbers has to be one of these numbers: 1, 2, or 3.

The other three numbers have to all be DIFFERENT and must be from these: 4, 5, 6, or 7.



# PREVIEW

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Name: \_\_\_\_\_

Use any of these digits. Cross off a digit after you use it. You do not need to use all of the numbers.

**2****9****7****1****6**

Make a subtraction equation. The difference between your numbers should be 5.

$$\underline{\quad} - \underline{\quad} = 5$$

Use any of these digits. Cross off a digit after you use it. You do not need to use all of the numbers.

# PREVIEW

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Use any of these digits. Cross off a digit after you use it. You do not need to use all of the numbers.

**4****6****5****6**

Make a subtraction equation. The difference between your numbers should be 2.

$$\underline{\quad} - \underline{\quad} = 2$$

Name: \_\_\_\_\_

Put a check (✓) on each number and fill in the blanks.

Example:

764

764 is more near to 800 than 700.764 is 800 when you round it to the nearest hundred.**PREVIEW**Join [edHelper.com](https://edHelper.com) for full access.

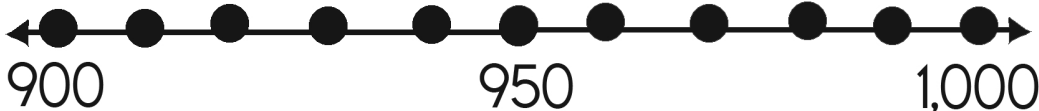
642



642 is more near to \_\_\_\_ than \_\_\_\_.

642 is \_\_\_\_ when you round it to the nearest hundred.

972



972 is more near to \_\_\_\_ than \_\_\_\_.

972 is \_\_\_\_ when you round it to the nearest hundred.

Name: \_\_\_\_\_

Add mentally the tens, then subtract the ones.

Example:

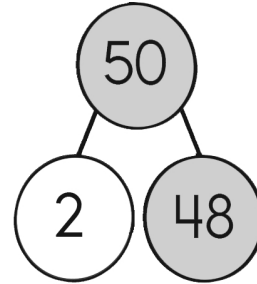


$$16 + 48 = ?$$

$$16 + 50 = \underline{66}$$

$$\underline{66} - \underline{2} = \underline{64}$$

$$\text{Means } 16 + 48 = \underline{64}$$



$$21 + 36 = ?$$

$$21 + 40 = \underline{\quad}$$



# PREVIEW

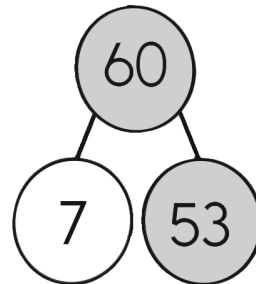
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$$38 + 53 = ?$$

$$38 + 60 + \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\text{Means } 38 + 53 = \underline{\quad}$$

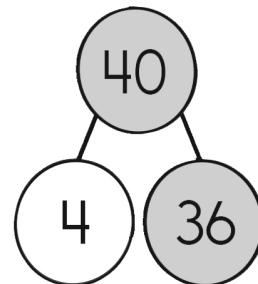


$$74 + 36 = ?$$

$$75 + 40 = \underline{\quad}$$

$$\underline{\quad} - \underline{\quad} = \underline{\quad}$$

$$\text{Means } 74 + 36 = \underline{\quad}$$





Name: \_\_\_\_\_

Write the sum or difference using front-end estimation.

Example:

$$278 + 198 = \underline{\hspace{2cm}}$$

$$\begin{array}{c} \downarrow \quad \downarrow \\ \underline{300} + \underline{200} = \underline{500} \end{array}$$

$$\text{Estimation} = \underline{500}$$

476 is adequate.

Example:

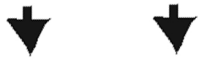
$$439 - 241 = \underline{\hspace{2cm}}$$

$$\begin{array}{c} \downarrow \quad \downarrow \\ \underline{400} - \underline{200} = \underline{200} \end{array}$$

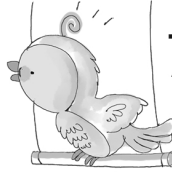
$$\text{Estimation} = \underline{200}$$

198 is adequate.

$$435 + 368 = \underline{\hspace{2cm}}$$



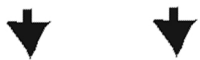
$$739 - 321 = \underline{\hspace{2cm}}$$



# PREVIEW

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$$324 + 509 = \underline{\hspace{2cm}}$$



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

$$\text{Estimation} = \underline{\hspace{2cm}}$$

       is adequate.

$$801 - 559 = \underline{\hspace{2cm}}$$



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

$$\text{Estimation} = \underline{\hspace{2cm}}$$

       is adequate.



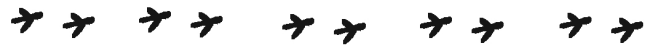
$$625 + 303 = \underline{\hspace{2cm}}$$



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

$$\text{Estimation} = \underline{\hspace{2cm}}$$

       is adequate.



$$283 - 166 = \underline{\hspace{2cm}}$$



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

$$\text{Estimation} = \underline{\hspace{2cm}}$$

       is adequate.

Name: \_\_\_\_\_

Use front-end estimation to make sure the answers are adequate.

Example:

$$9,732 - 6,541 = 3,191$$

(front-end estimation)

9,732

6,541



So  $\textcircled{9},000 - \textcircled{6},000 = 3,000$   
means 3,191 is adequate,



# PREVIEW

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$$8,652 + 4,327$$

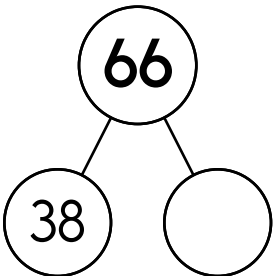
$$4,538 - 3,899$$

$$5,331 + 2,869$$

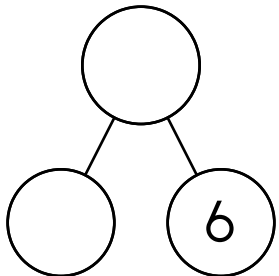
$$7,689 - 5,437$$

Name: \_\_\_\_\_

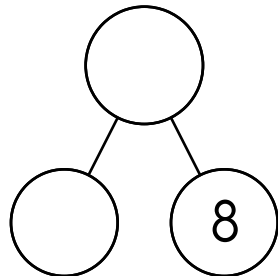
Pick from the numbers to complete each number bond.



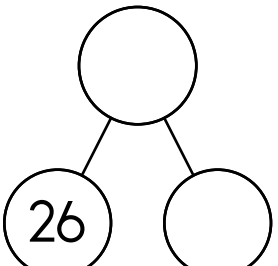
28  
19  
10  
21  
20



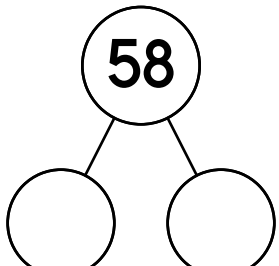
77  
72  
75  
81



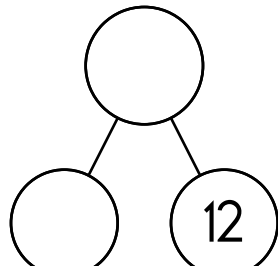
39  
31  
41  
39  
38



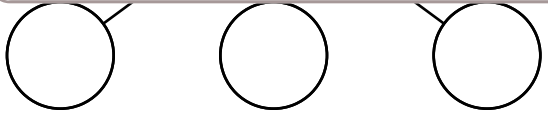
60  
56  
31  
57



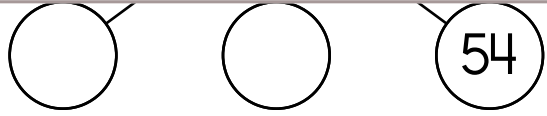
9  
10  
49  
9



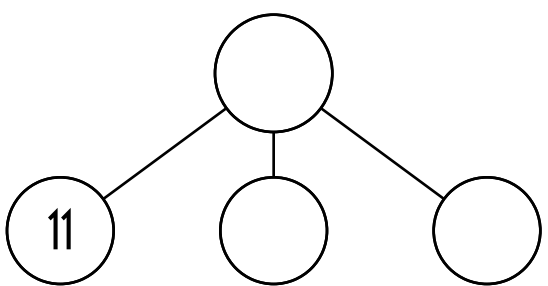
29  
18  
15  
41

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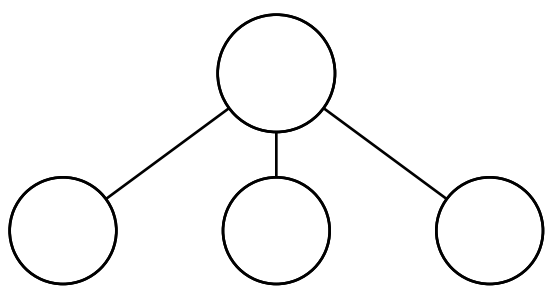
9



10



22 49  
49  
28  
85  
25



45 89  
40  
44  
5  
44

Name: \_\_\_\_\_

I am the smallest whole number that will round to 600 when you round to the nearest hundred.

I am the largest whole number that rounds to 40 when rounding to the nearest ten.

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I am the largest whole number that will round to 480,000 when you round to the nearest ten-thousand.

Name: \_\_\_\_\_

364 - 67 gives the \_\_\_\_\_ of 364 and 67.

difference

sum

product

place value

Which is the best estimate for the difference between 7,556 and 2,889?

8,000

5,000

1,000

3,000

Round 238 to the nearest hundred.

Round 437 to the nearest ten.

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580

600

700

500

Add using mental math.

$$22 + 10 =$$

Use paper and pencil to answer.

The sum of 295 and 583 is \_\_\_\_\_.

Round 338 to the nearest hundred.

$$33 + 10 = \text{_____} + 1$$

43

45

44

42

Name: \_\_\_\_\_

5	+6		+1		+1		+5	
								-8
			+8		-4		+4	
	-2		-5		-7		-4	

# PREVIEW

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+7		-9		+3	5			+8	10
----	--	----	--	----	---	--	--	----	----

Subtract 1 or 10.

	87
--	----

23

65

	100
--	-----

	38
--	----

$70 + 1 = \underline{\hspace{2cm}}$



Write this number using words.



Name: \_\_\_\_\_

The number 45499 is the largest whole number that, when rounded to the nearest \_\_\_\_\_, will be 45000.

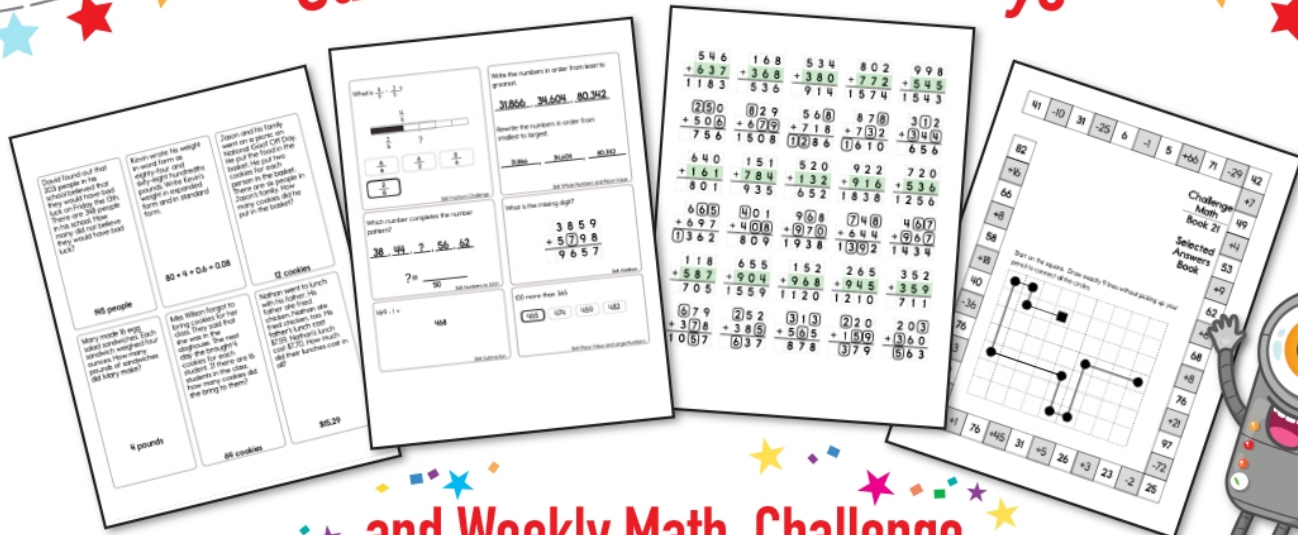
The number 44 is the largest whole number that, when rounded to the nearest

# PREVIEW

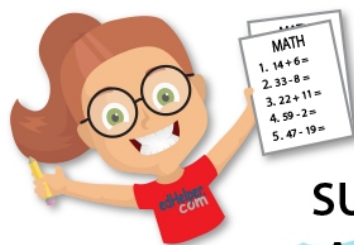
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I am the smallest whole number that rounds to 180 when rounding to the nearest ten.

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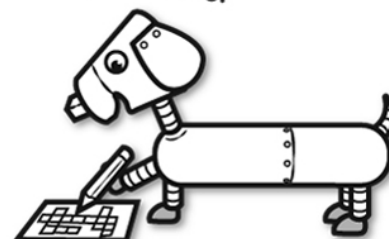


New ideas!



$\times$   
 $\times =$   
 $- \div$   
 $< - >$

More puzzles!







**Name:** \_\_\_\_\_

Sarah is putting together goodie bags for her birthday party. She invited 9 friends, and everyone can come except for Jessica. At the party store, she bought 14 stickers. She wants to give everyone (including herself) an equal number of stickers. How many should she put into each goodie bag?

David and Sara have the same amount of money. David has 11 nickels and 6 dimes. If Sara has 4 dimes, then how many nickels does she have?

Olivia is trying to figure out what fraction of her name is not made up of vowels. What's the answer? Can you simplify your fraction? Can you come up with another name or word that has the same fraction of vowels?