75.9	-8		-56.8		+15		+3.7		+2.1	
										+37.2
21.7										
-72.7										+21
+78										-19.3
+9										-18
-7										+16.5
-5										-47.6
										21.7
-13.8										+40
	-17.6		+25.9		+13		-64.2		+14.4	

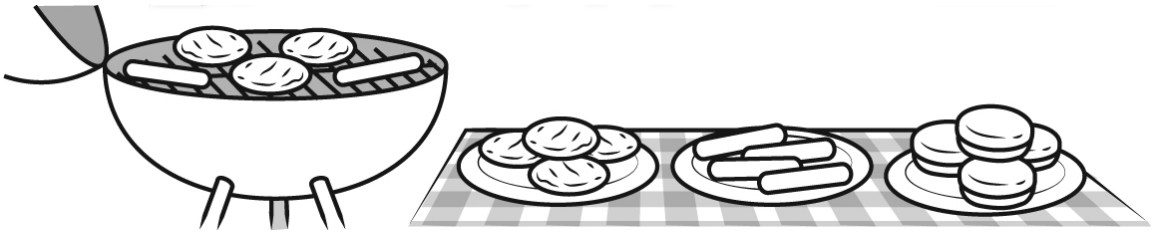
Name: _____

Pick 21 to do: Skip 2 pages.

☐ page 1	☐ page 6	☐ page 11	☐ page 16	☐ page 21
☐ page 2	☐ page 7	☐ page 12	☐ page 17	☐ page 22
☐ page 3	☐ page 8	☐ page 13	☐ page 18	☐ page 23
☐ page 4	☐ page 9	☐ page 14	☐ page 19	
☐ page 5	☐ page 10	☐ page 15	☐ page 20	

Challenge Math

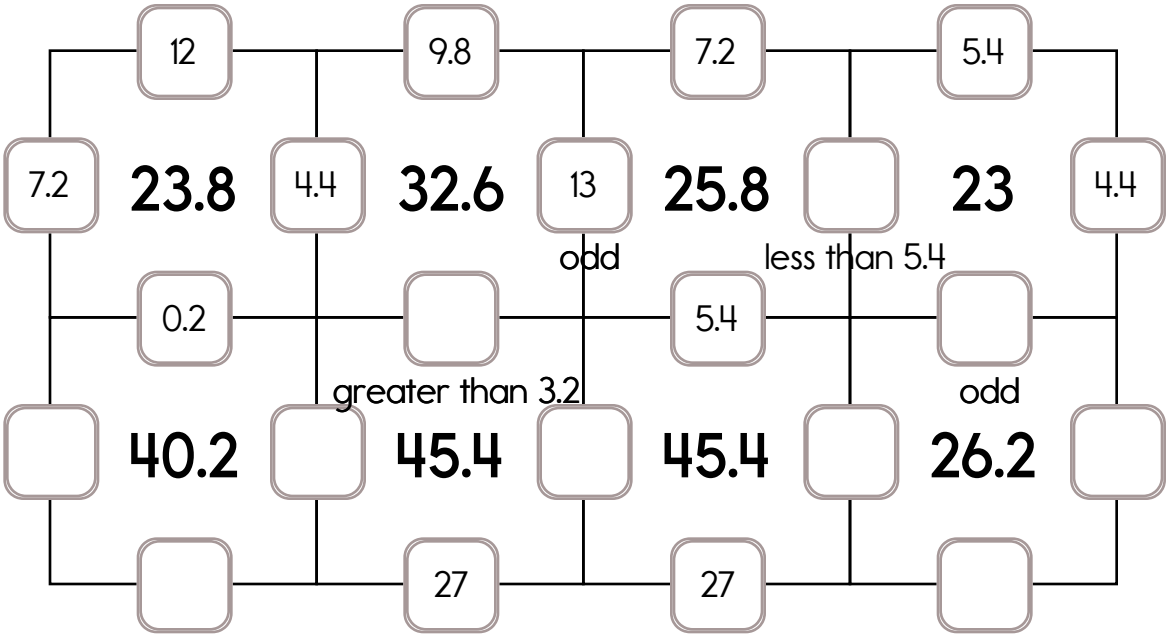
Book 37



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: 13, 12, or 27.

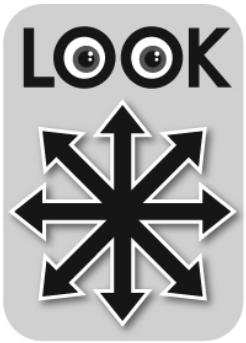
The other three numbers have to all be DIFFERENT and must be from these: 4.4, 3.2, 9.8, 7.2, 0.2, 2.4, or 5.4.



Name: _____

- [x] 5 x 7 = **35**
- [ ] 8 x 10 =
- [ ] 12 x 7 =
- [ ] 8 x 12 =
- [ ] 2 x 9 =
- [ ] 7 x 4 =
- [ ] 2 x 2 =
- [ ] 12 x 6 =
- [ ] 5 x 6 =
- [ ] 5 x 9 =
- [ ] 2 x 11 =

12	85	12	84	18	3	6	3	9	12	2	5	9	45	23	21
12	7	23	16	0	12	4	25	5	9	11	7	12	5	85	12
8	28	31	1	6	2	2	35	12	6	5	18	1	30	5	3
22	30	45	11	12	15	2	9	22	23	7	9	45	6	20	14
35	72	9	11	6	6	5	16	4	4	2	4	84	9	11	28
6	15	4	4	72	2	7	80	31	26	5	2	2	12	5	5
3	15	29	9	7	8	4	19	10	30	5	18	9	2	9	7
25	5	**x**	7	**=**	35	12	12	24	29	6	8	8	21	6	8	9	2
96	2	23	96	21	4	2	29	10	6	10	18	10	1	46	29
2	10	15	11	7	4	5	2	72	4	85	2	18	4	9	8
2	9	5	2	2	5	9	46	80	4	27	85	2	17	4	12
27	9	12	7	84	11	96	31	6	5	28	7	2	28	15	19
20	23	22	5	16	10	22	4	27	6	3	12	16	45	4	5
46	8	29	25	80	4	2	7	7	30	8	29	7	6	12	7



Write operation.

Write = sign.

Circle.

- [x] 2 x 4 = **8**
- [ ] 9 x 11 =
- [ ] 5 x 12 =
- [ ] 6 x 11 =
- [ ] 6 x 3 =
- [ ] 9 x 5 =
- [ ] 3 x 8 =
- [ ] 7 x 2 =
- [ ] 10 x 6 =
- [ ] 5 x 3 =
- [ ] 11 x 2 =

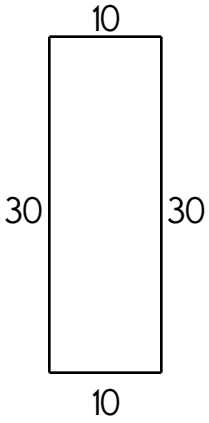
11	11	5	1	2	14	10	8	10	6	3	18	8	7	66	7
45	23	99	4	8	60	5	18	21	11	6	27	12	7	5	3
67	11	6	2	14	4	3	11	5	10	14	2	99	2	4	2
5	5	2	2	13	11	5	27	25	3	6	9	6	45	12	8
2	21	7	22	3	12	13	3	10	23	16	60	11	25	5	3
24	3	8	5	16	3	25	14	44	3	6	59	14	99	12	99
59	8	5	6	98	7	11	45	5	9	28	5	8	12	15	11
60	21	3	24	44	12	65	3	4	12	5	2	21	5	14	11
11	2	**x**	4	**=**	8	22	14	15	9	18	22	11	44	11	9	60	5
22	66	2	67	7	12	11	25	65	98	14	2	2	12	6	14
9	11	11	2	9	2	2	3	24	17	59	12	5	13	3	24
5	6	12	66	14	5	3	15	21	9	11	18	60	6	16	60
23	12	22	2	11	6	3	60	5	6	2	67	7	4	5	23

Name: _____

The fourth grade students invited their parents to come to their classroom on Alexander Graham Bell Day to see their projects. Emily was making nametags for the parents. She needs 36 nametags. If she makes 5 nametags each day, how many days will it take her to make all the tags?

During Be Kind to Humankind Week the students at Midvale Elementary School gave their change to Habitat for Humanity. If an average of $168 was donated each day, how much money did the students give in 7 days?

The Cat in the Hat lost his hat. He looked under the bed. He looked in the oven. He looked in the fishbowl. He looked in the bathtub. He looked for one hour and 50 minutes before he found his hat in a flowerpot. If he started looking at 10:35 a.m., what time did he find his hat?



The perimeter is _____.

What is the value of the BIG digit?

78,**5**39,104

_____

$$\begin{array}{r} 31 \\ +\ 12 \\ \hline \end{array}$$

$2\overline{)14}$ $4\overline{)24}$

How many days are in April?

_____

Do you use A.M. or P.M. to write the time you eat breakfast?

_____

Name: _____

Cross off the letter that does NOT belong.

E, J, F, M, G, P, H, S, I, S, V, J, Y

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong. Hint: Look at movement of digits!

1472, 4721, 7214, 2147, 7214, 1472, 4721, 7214,

2147, 1472, 4721, 7214, 2147, 1472, 4721

Why does _____ not belong in the pattern?

Name: _____

Draw a line to match each problem with the same answer.

46 + 45 + 64 =	38 + 29 + 26 =
72 + 78 + 76 =	26 + 38 + 29 =
71 + 77 + 78 =	91 + 96 + 85 =
85 + 94 + 93 =	55 + 53 + 54 =
55 + 54 + 53 =	54 + 42 + 59 =

Write the least possible 5-digit number using only 4 different numbers.

You have a playdate in 60 minutes. How many hours is that?

Is 34 a composite or a prime number?

How much greater is 184 than 46?

Find the product of 8 and 3.

Write the greatest possible 4-digit number without repeating any numbers.

135, 150, 165, _____,

195, 210, 225, 240

2, 2, 5, 5, 2, 2, 5, 5,

_____, 2, 5, 5

Rosa has 20 nickels. How much money is that?

word root **hemi** can mean **half** **hemisphere**

☐ I did page 5 ☐ I decided to skip this page

edHelper

Name: _____

Get a fidget spinner! Spin it. **I needed to spin _____ time(s) to finish.**

12, 14, 16, _____, 20,
22, 24, 26, 28

How many hours are there from 6 a.m. to 10 p.m.?

$$\begin{array}{r} 136 \\ -\ 96 \\ \hline \end{array}$$

6 less than 356

double 60

2 less than 642

30, 41, 52, 63, 74,
_____, 96

D, _____, N, S, X

96, _____, 88, 98, 80,
89, 72, 80, 64, 71, 56,
62, 48

A book has 3 pages. Each page has 12 dimes. How many dimes in the book?

What is the sum of 5 and 29?

84 ÷ 7 = 12

☐ I did page 6 ☐ I decided to skip this page

edHelper

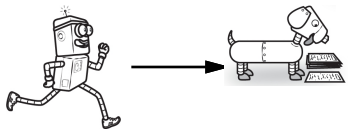
Name: _____

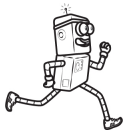
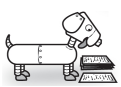
Spin again. **I needed to spin _____ time(s) to finish.**

7 - 2 - 2 + 5 + 3	Write this number: 6 tens, 5 thousands, 7 ones, 2 hundreds	If you know 75 + 25 = 100 Then what is 75 + 22?
Write this number: 4 ones, 8 tens, 2 thousands	6 less than 656	V, Q, S, O, P, M, _____, K, J, I
What is the sum of 10 and 226?	The number 63 is more than the number 8 by how much?	45 ÷ 5 =
495 + 9 =	___ ÷ 4 = 5	(8 + 2) - 10

Name: _____

Help Robot find Rover. Make a path of increasing differences. You can only move to a box with a larger difference. Draw a line to show your path.



	89 - 14	64 - 21	96 - 64	75 - 62	69 - 29	87 - 63	83 - 18	60 - 22
76 - 65	50 - 36	29 - 14	96 - 80	36 - 19	58 - 40	65 - 46	84 - 63	90 - 64
70 - 16	94 - 25	59 - 24	99 - 60	86 - 66	70 - 21	44 - 21	56 - 33	83 - 56
69 - 45	83 - 15	97 - 37	88 - 58	84 - 49	58 - 24	64 - 32	66 - 35	67 - 38
93 - 50	99 - 85	61 - 42	30 - 13	54 - 18	83 - 13	85 - 62	79 - 27	56 - 39
49 - 20	50 - 12	56 - 11	74 - 35	82 - 44	43 - 34	70 - 34	72 - 29	76 - 19
92 - 37	71 - 50	63 - 57	66 - 26	57 - 14	72 - 28	74 - 45	84 - 43	74 - 18
97 - 92	51 - 28	93 - 80	86 - 78	54 - 49	61 - 15	98 - 51	97 - 47	

Name: _____

Show your work.

Jenna was at her favorite store at the mall when something caught her eye.

"What is it?" asked her brother, Billy.

"These pillows are so fluffy. My friends will love them, and they are only $6 each," she said.

The sign above the pillows said, "Buy 3, get 1 free."

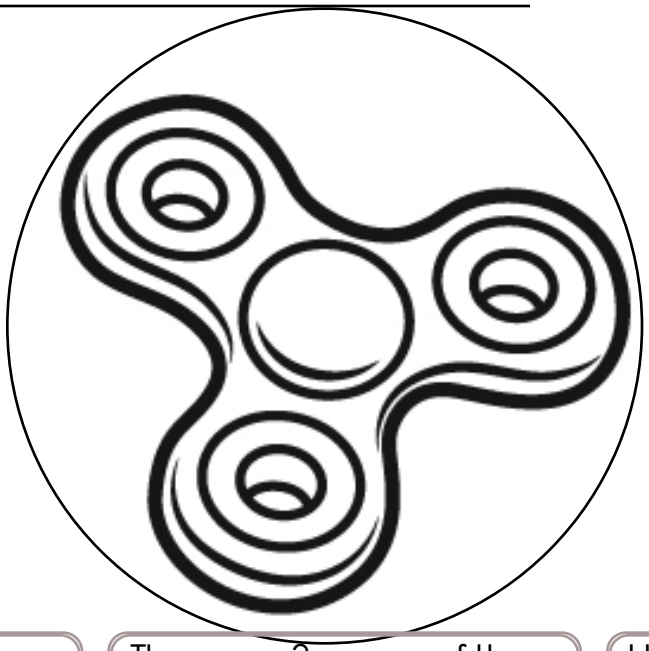
Jenna decided to buy one for herself and one for each of her three friends.

How much will this purchase cost?

Billy was checking his phone. "Wait!" yelled Billy. "I think it may be cheaper to buy on-line." He checked his It's Cheaper app. The app said the pillows could be bought on-line for $4 each. "The pillows are only $4 each!" he yelled again.

Billy did not notice that the company also charges $5 for shipping. If Jenna buys the pillows for herself and her friends with this app, how much will it cost?

Name: _____



Is 868 closer to 800 or 900?	There are 2 groups of 4 rocks. How many rocks?	How many total legs are on 23 dogs.
Is 17 a composite or a prime number?	Draw a small clock that shows 10 minutes to 9:00.	Write the number that has exactly 8 tens.
Kevin earns $21 an hour. He worked 4 hours. How much did he make?	How many hundreds are in the number 2,000?	In the equation 37 x 484 = 17,908, which number is the product?

Name: _____

Draw a small clock that shows 20 minutes past 11:00.	How many total legs are on 70 elephants.	What is the sum of 6 and 86?
If you exchange 110 dimes for dollars, then how many dollars would you get?	How many tens are in the number 90?	Double the number 6 three times.
24 ÷ ___ = 8	You need to add what to 76 to get 82?	Is 15 a composite or a prime number?
Round 725 to the nearest hundred.	A book has 4 pages. Each page has 12 dimes. How many dimes in the book?	Mary bought a pack of six waters. It cost $3.72. How much did each water cost?
Find the product of 6 and 4.	75, 80, _____, 90, 95, 100, 105	Name the shape with four sides and four angles.

Name: _____

Draw an area model to solve 48 x 7.

Anne has 29 nickels. How much money is that?

How much greater is 184 than 48?

Write the number that is one thousand more than 5,203.

What is 15 less than 899?

How many tens are in the number 11,000?

12 x 8 =

Name: _____

Robot Erin likes to be tricked. Show at least 5 different ways to make 8,500. One of your ways should be WRONG to trick Robot Erin.

4 + 1 + 1

Write the number that has exactly 4 tens.

Is 26 a composite or a prime number?

Hunter bought 4 dozen cupcakes for a party. How many cupcakes did he buy?

7 + 6 - 5

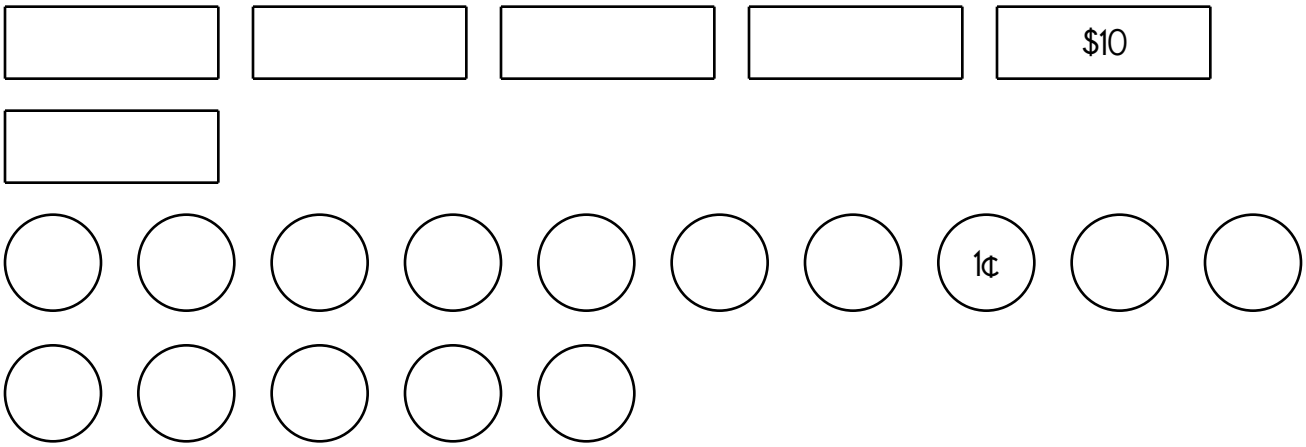
Write the first 5 multiples of 6.

word root **inter** can mean **among or between** **interact, interaction, interrupt**

Name: _____

Make change. You can use $20, $10, $5, $1, 25¢, 10¢, 5¢, or 1¢.

Jason has $47.12. He has 6 bills and 15 coins. How?



David has $86.81. He has 8 bills and 7 coins. How?

Amy has $35.11. She has 4 bills and 15 coins. How?

Name: _____

Mr. Rodriguez heard a noise. He looked outside his door. There was a tiny black kitten. He brought the kitten in his house and gave her some food and water. The kitten went to sleep on his lap. Later Mr. Rodriguez went to the store. He bought kitten food for $5.90, a tiny collar for $1.69, a food dish for $2.26, and some treats for $2.39. How much did he spend in all?

Mary made three posters for her classroom. The first poster illustrated the steps in making butterscotch pudding. The second poster was a graph of the results of her "Favorite Pudding" survey. The third poster was a giant picture of a bowl of butterscotch pudding decorated with whipped cream, crushed nuts, and bright red cherries. Each poster was twenty-four inches wide and thirty-eight inches high. How many square feet of poster board did she use for the three posters?

For some reason Mr. Hall has 3 chairs. The students in the class each have one chair. Why else would they need more? All of the chairs have 4 legs. All of the kids and Mr. Hall have 2 legs. There is a total of 98 legs in the classroom (including human legs and chair legs). How many students are there?

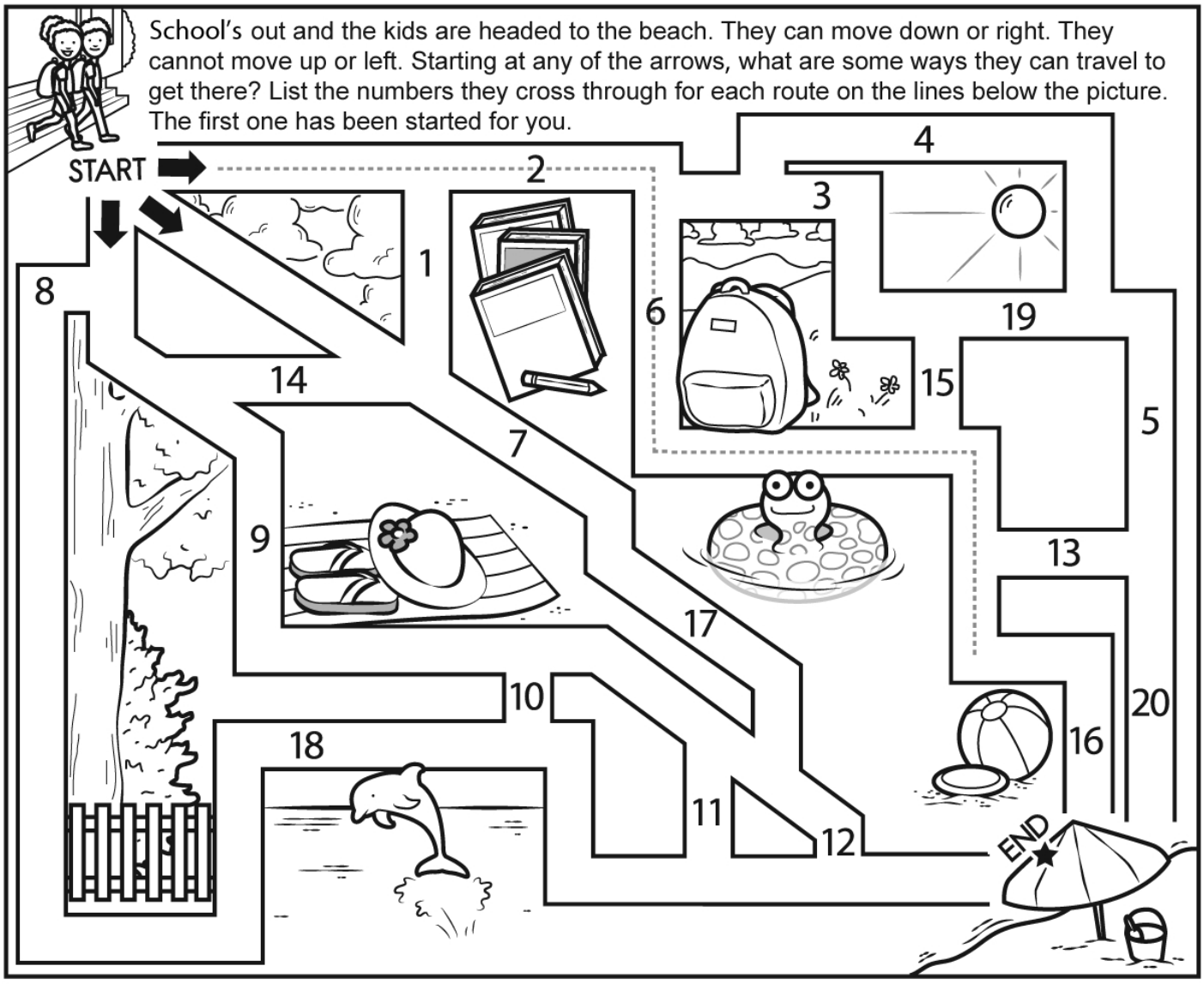
$$\begin{array}{r} 600 \\ -\ 91 \\ \hline \end{array}$$

Find the sum of 14, 12, and 33.

Find the difference between 9072 and 4857.

word root **intro** can mean **within** **introversion, introvert**

Name: _____



2 6 ★

★

★

★

★

★

©edhelper

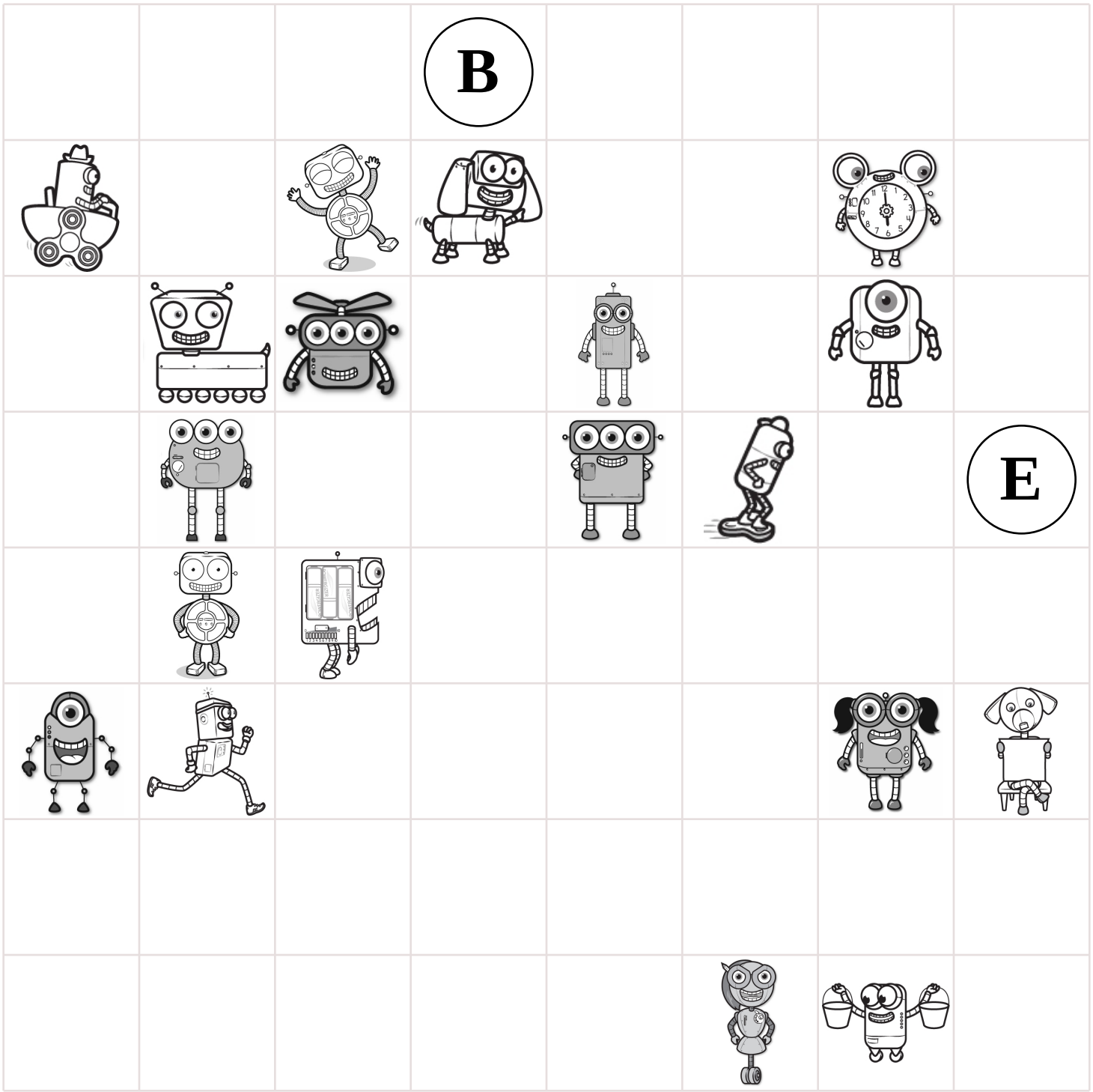
Name: _____

"It's only 20 minutes to 8 in the morning, and I'm down to 5%," yelled Billy.
"Seriously?" responded Charlie. "Go charge it before we leave for baseball."
Billy plugged in his phone. The phone said, "Charging: 5%. Approximately 1 hr 50 min until fully charged."
At what time will Billy's phone be fully charged?

Show your work.

Name: _____

Pick up all of the robots from the game board. Start on the **B** circle. Do not pick up your pencil. Draw a line going left, right, up, or down. **Every line must end on a robot or the E circle. No stopping on an empty box.** Try to collect all the robots and end your last line on the **E** circle. You can go through a robot more than once.



Didn't get them all? That's ok. This was hard. I missed only _____ robot/robots.

Name: _____

Puzzle:

	4			34
	4			34
				39
				22
30	24	44	31	+

Work Area:

	4			34
	4			34
				39
				22
30	24	44	31	+

The sum for each column and row is given.

= _____ = _____ = _____

= _____

Puzzle:

				22
				41
				25
				26
35	28	27	24	+

Work Area:

				22
				41
				25
				26
35	28	27	24	+

The sum for each column and row is given.

= _____ = _____ = _____

= _____ = _____

Name: _____

Pay the bill!

Ava needs money. She wants to get $120 in cash, so she writes a check payable to cash in this amount. Write this check.

AVA 1221

DATE _____

PAY TO THE ORDER OF _____ $ ____

_____ DOLLARS

MEMO _____ _____

⑆991975830⑆ ⑈4041⑈ 1221

Pay the bill!

Rent is due. Ava needs to pay her landlord $3,400. Her landlord's name is April Hernandez.

AVA 1222

DATE _____

PAY TO THE ORDER OF _____ $ ____

_____ DOLLARS

MEMO _____ _____

⑆991975830⑆ ⑈4041⑈ 1222

If you exchange 80 dimes for dollars, then how many dollars would you get?

What number is halfway between 0 and 14?

The number 66 is more than the number 8 by how much?

Name the shape with five sides and five angles.

706 + 9 =

Write the least possible 3-digit number using only 2 different numbers.

Name: _____

Pay the bill!

Max received a bill from Central Water for $241.19. Write the check as Max would write it.

MAX 1510

DATE _____

PAY TO THE ORDER OF _____ $ ____

_____ DOLLARS

MEMO _____

⑆993011719⑆ ⑈45056⑈ 1510

Pay the bill!

Max received a bill for his cellphone from Mobile Unlimited for $47.72. Write the check as Max would write it.

MAX 1511

DATE _____

PAY TO THE ORDER OF _____ $ ____

_____ DOLLARS

MEMO _____

⑆993011719⑆ ⑈45056⑈ 1511

Write the number that is one hundred more than 6,928.

Write the number that has exactly 2 hundred thousands.

Draw a small clock that shows 5 minutes past 8:00.

How many total legs are on 60 chickens.

What is the sum of 9 and 77?

Hunter earns $23 an hour. He worked 6 hours. How much did he make?

Name: _____

Nathan, Peter, and Max are on the same soccer team, and they are all super competitive. Nathan is the best juggler, Max is the worst, and Peter is somewhere in-between.
"I wouldn't say I'm the worst," interrupts Max. "Just that you two are really good!"
"Totally," replies Peter. "Your high juggle is only 5 juggles away from mine."
Nathan, on the other hand, was not as polite. "You'd have to double your high, Max, and then some!" At least Nathan didn't say that the "then some" was really 10.
"At least it's not triple," interrupts Peter.
"Why are you so nice to Max? My high is double yours!" adds Nathan.
Peter was dumbfounded, "So what?" he says as he started to walk away, "Your high is only double figures. Jennifer is so much better than you. Her high is triple figures!"
What is the most number of juggles that Nathan has done? How about Peter? Max?

Show your work.

Name: _____

Alex, Jacob, Gavin, and Justin were having a hat-throwing contest. Alex threw his hat 1 foot 5 inches. Jacob threw his hat 2 feet 8 inches. Gavin threw his hat 3 feet 1 inch. Justin threw his hat 4 feet 6 inches and won the contest. How much further did Justin throw his hat than Gavin threw his hat?

Amy went to Cullowhee Café and ordered a hamburger with lettuce, tomato, and mayonnaise on it, a small order of french fries, and a large drink. The total price was $4.77. If she pays for her meal with a 5-dollar bill, how much change will she get?

Robert made a display for the school library. It was about recycling. He used three sheets of poster board for the display. He bought the poster board at Fred's Art Supplies. It cost $2.25 for the three sheets. He gave the clerk $5. How much change did he get?

Add. Fill in the blanks.

+	6	4
3	☐	7
9	15	☐

+	3	4
☐	4	☐
5	☐	☐

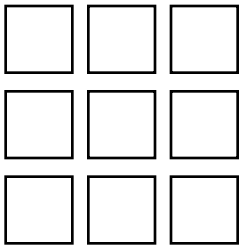
$$\begin{array}{r} 74 \\ -\ 10 \\ \hline \end{array}$$

Circle the smallest number.

135 158 170 172

8 x 2 = _____

Color in $\frac{1}{3}$.

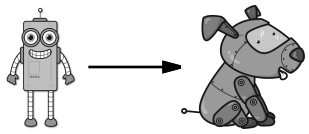


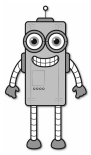
Write the number for eighty-four thousand, one hundred sixty.

_____

Name: _____

Help Robot find Rover. Make a path of increasing differences. You can only move to a box with a larger difference. Draw a line to show your path.



	57 -35	77 -55	59 -41	97 -20	33 -30	65 -28	95 -49	90 -50
87 -83	23 -13	43 -31	94 -81	38 -24	41 -25	76 -51	53 -49	92 -91
22 -17	83 -46	79 -29	76 -54	62 -42	99 -81	66 -20	31 -26	26 -16
72 -64	70 -59	90 -87	52 -29	97 -61	63 -25	24 -17	84 -58	82 -42
30 -26	83 -14	93 -86	39 -13	60 -31	56 -40	88 -39	92 -31	78 -54
75 -13	98 -88	41 -32	86 -44	51 -17	82 -68	37 -29	81 -71	34 -15
68 -46	74 -29	84 -32	86 -42	59 -13	81 -32	70 -17	97 -41	91 -34
77 -65	99 -57	33 -22	80 -52	98 -64	38 -37	76 -67	73 -16	

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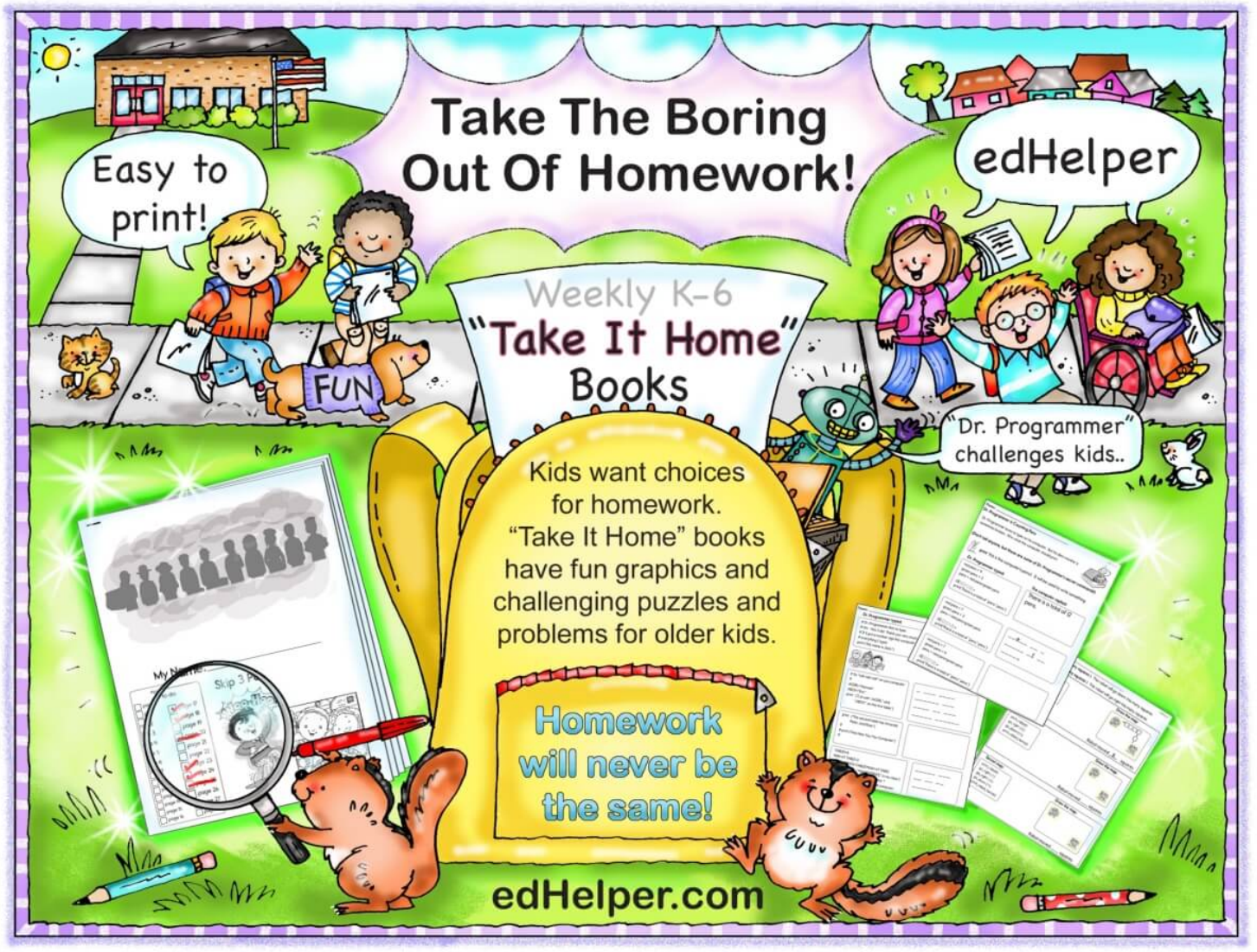
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