

34	+28		+11		-2		-13		-25	
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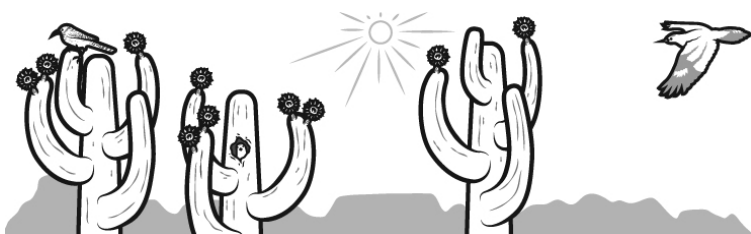
Name: _____

Pick 25 to do:

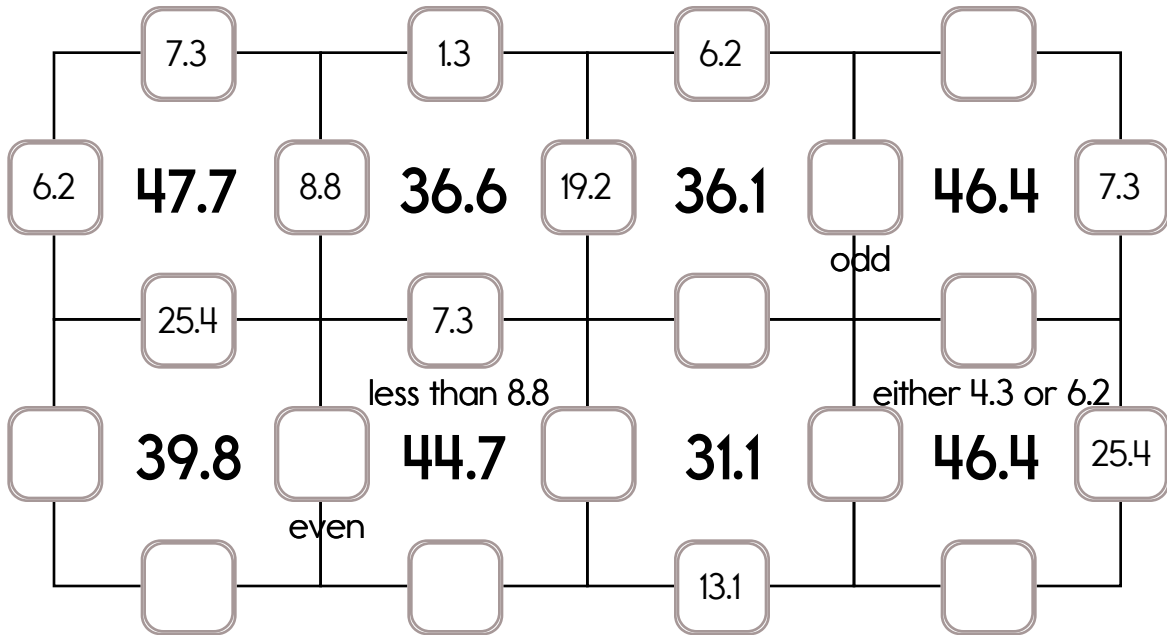
Skip 2 pages.

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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: 13.1, 25.4, or 19.2.
The other three numbers have to all be DIFFERENT and must be from these: 9.4, 4.3, 1.3, 6.2, 7.3, or 8.8.



	+64		+6		-16		+14		-17	
--	-----	--	----	--	-----	--	-----	--	-----	--

☐

I did page 1

☐I decided to skip this page
edHelper**Name:** _____

"Justin, I like your rad new car," says Billy.

"Thanks! I'm taking my first long distance ride next week to Wamporan's World. It's about 350 miles away but I have no idea how long it will take!" says Justin.

"Wow! I heard about their new roller coaster," says Billy.

"Sorry to interrupt guys, but can't you just divide 350 miles by how fast you go?" asks Jen.

"For sure," says Billy. "Of course, I'll probably need to stop once for gas. That may take 10 minutes or so. And once to eat lunch. Maybe 20 minutes for that."

"I'm looking at my map app. It says it should take 8 hours. No idea how it figured that out!" replies Jen.

Billy wakes up the next day at 8:30. He gets ready and leaves for the trip at 9:15. What time do you think he will arrive at Wamporan's World?

Show your work.

Name: _____

How many clucks are equal to 12 gobbles?

$$12 \text{ gobbles} = 24 \text{ meows}$$

$$4 \text{ meows} = 1 \text{ chirp}$$

$$24 \text{ chirps} = 72 \text{ clucks}$$

Write the reciprocal.

$$\frac{6}{3}$$

Write the reciprocal.

$$\frac{5}{1}$$

Write the reciprocal.

$$\frac{10}{19}$$

triple 51 =

The number 73 is more than the number 6 by how much?

Is 33 a composite or a prime number?

How many centimeters are in 90 millimeters?

_____ centimeters

Circle the answer that best completes the sentence.

I have tasted (either/neither) cappuccino nor espresso.

Name: _____

Amy likes to multiply a number by itself. Why? Nobody knows!

"If I take my favorite number and multiply it by itself, the product will be only 14 away from 18. Can you guess my favorite number?" asks Amy.

R, _____, P, D, N, C,
L, B, J, A

$$8 + (10 \times 10)$$

$$709 + 7 =$$

$$12 \times 4 =$$

Is 11 a composite or a prime number?

Is 867 closer to 800 or 900?

Insert punctuation marks into this sentence.

Hey, Alex, I called. Come over to my house after school!

$$77 \div 7 =$$

$$29 \text{ lb} = \text{_____ oz}$$

Name: _____

Cheeka and Zoom work at Techno Headquarters. They are trying to test drive a new space vehicle for their home planet of Specktra.

"I believe our prototype vehicle can go in auto drive mode at a speed of 1,248 mph," says Cheeka.

"Hmm. That sounds good, but I'm wondering how fast that is. How far will it go in one minute?" asks Zoom.

"Wow!" says their boss. "If I drive this from headquarters to my house, how long will it take me to get home?"

"Will you expect any stop lights on the way home?" asks Cheeka.

"Of course not!" says their boss.

"And how far is your home from headquarters?" asks Cheeka.

"Why, it's about... Uh, maybe... Oh, yes, exactly seventy-two and four-fifths miles away," replies their boss. "How could I possibly forget?"

Try to figure out how long it would take their boss to get home. When their boss presses the button on this vehicle, it will be going instantly at 1,248 mph in the direct direction of his home. Amazing!

Name: _____

Ready to make equations? There is a missing equation in each box.

Circle the numbers once you find it!

A

14	69	8
40	97	61
65	67	62

Find a subtraction fact.

B

7	3	39
56	69	26
66	94	90

Find a subtraction fact.

C

50	19	91
45	72	56
92	82	30

Find a subtraction fact.

Equations:

Write the equation facts you found.

A	69	-		=	
B		-	3	=	
C		-	19	=	

Sketch an acute angle named $\angle EFG$.

Sketch a right angle named $\angle EFG$.

Sketch an acute angle named $\angle GHI$.

How many minutes are there from 6:00 p.m. until 7:30 p.m.?

How many total legs are on 24 tigers.

$6 \div 3 =$

Name: _____

Pay the bill!

Mary needs money. She wants to get \$100 in cash, so she writes a check payable to cash in this amount. Write this check.

MARY	1396
DATE _____	
PAY TO THE ORDER OF _____	\$
_____ DOLLARS	
MEMO _____	
⑆992225097⑆	⑈46950⑈ 1396

Pay the bill!

Mary received a bill for her cellphone from Mobile Unlimited for \$42.94. Write the check as Mary would write it.

MARY	1397
DATE _____	
PAY TO THE ORDER OF _____	\$
_____ DOLLARS	
MEMO _____	
⑆992225097⑆	⑈46950⑈ 1397

$45 \div \underline{\quad} = 9$

Write a 2-digit even number.

Is 41 a composite or a prime number?

How many tens are in the number 30?

$10 - 14 \div 7$

You need to add what to 68 to get 75?

Name: _____

Pay the bill!

Rent is due. Jason needs to pay his landlord \$3,000. His landlord's name is Emma Taylor.

JASON	1086
DATE _____	
PAY TO THE ORDER OF _____ \$ 	
_____ DOLLARS	
MEMO _____	
⑆ 601101 2773 ⑆ ⑆ 45288 ⑆ 1086	

Pay the bill!

Jason received a bill from Central Water for \$78.88. Write the check as Jason would write it.

JASON	1087
DATE _____	
PAY TO THE ORDER OF _____ \$ 	
_____ DOLLARS	
MEMO _____	
⑆ 601101 2773 ⑆ ⑆ 45288 ⑆ 1087	

Multiply 119 and 5.

$$\begin{array}{r} 37 \\ \times 13 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ \times 5 \\ \hline \end{array}$$

____ ÷ 9 = 3

double 33 =

$\frac{1}{729}$, $\frac{1}{81}$, $\frac{1}{9}$, (1), (9),
_____, (729), (6,561)

☐

I did page 8

☐I decided to skip this page
edHelper

Name: _____

Get a fidget spinner! Spin it.

I needed to spin _____ time(s) to finish.

Write the number that is one hundred more than 5,412.

Is 488 closer to 400 or 500?

The number 52 is more than the number 6 by how much?

What number is halfway between 0 and 22?

$$12 \times 4 =$$

$$2 + 3 + 3 - 1$$

What is 50% of 1,434?

How many centimeters in 7.6 meters?

$$5 + 7 - (1 \times 5)$$

64, 69, 74, 79, 84, 89,
94, 99, _____, 109

How much money is 1 quarter, 1 dime, 7 nickels, and 1 penny?

$$4 + 2 + 7 \times 5$$

☐

I did page 9

☐I decided to skip this page
edHelper

Name: _____

Spin again.

I needed to spin _____ time(s) to finish.

How many hundreds are in the number 24,000?

13, _____, 17, 19, 21, 23,
25

Is 13 a composite or a prime number?

How many tens are in the number 20?

$577 + 8 =$

Double the number 5 three times.

5, __, __, __,
____, 715

How much time is it from 7:00 a.m. to 10:45 a.m.?

Round the decimal 0.745 to the nearest hundredth.

$7 \times 8 - 4$

A, E, I, M, Q,
____, Y

55 divided by 5 equals

Name: _____



Estimate quickly the difference.
 $7,380 - 1,920$

The radius of a circle is 529 cm. What is the diameter of this circle?

Write $\frac{5}{10}$ in lowest terms.

Round 18,607 to the nearest thousand.

What 3 coins add up to 16 cents?

What is the area of a rectangle with sides 3 cm and 11 cm?

$$12 \div \frac{1}{4}$$

$$6\frac{7}{8} + 4\frac{6}{8}$$

A toy car can go 3 mph. How long would it take to go 8 miles?

Name: _____

Know how many inches in a foot? Okay, smarty pants, how many inches in 5 feet?

G, L, I, O, _____, R,
M, U, O, X

How many minutes is it from 7:00 a.m. to 10:55 a.m.?

(1,953,125) , (390,625) ,
(78,125) , (15,625) ,
(3,125) , (625) ,
_____, (25) , (5)

(729) , (243) ,
_____, (27) , (9) , (3)
, (1) , $\frac{1}{3}$, $\frac{1}{9}$

$$28 + n = 41$$

130, 140, 150, 160, 170,
_____, 190

What is 50% of 1,758?

Write $\frac{6}{15}$ in lowest terms.

Estimate quickly the difference.
 $7,980 - 2,160$

$$7 \times 6 + 12 - 2$$

What 5 coins add up to 86 cents?
















Know how many inches in a foot? Okay, smarty pants, how many inches in 3 feet?

How much money is 1 quarter, 3 dimes, 1 nickel, and 1 penny?

Round 91,218 to the nearest hundred.

Name: _____




Puzzle:



				1,536
6				420
				294
				784
1,152	784	1,960	84	X

Work Area:

















				1,536
6				420
				294
				784
1,152	784	1,960	84	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.

 = _____
  = _____
  = _____

 = _____
  = _____




Puzzle:




				512
				2,520
				1,080
				1,536
1,280	1,008	960	1,728	X

Work Area:

				512
				2,520
				1,080
				1,536
1,280	1,008	960	1,728	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.

 = _____
  = _____
  = _____

 = _____
  = _____
  = _____

☐

I did page 13

☐I decided to skip this page
edHelper

Name: _____

There are 7,843 eggs to be packed into cartons. What number is in the hundreds place?

Jacob and Robert worked on a sports page project for Newspaper in Education Week. Together they worked 27 hours. Jacob worked 18 hours. How many hours did Robert work?

Ornithomimus, a fast, agile, bird-like dinosaur, could run up to 43 miles per hour. At that rate, how many miles could an ornithomimus run in 6 hours?

Round the decimal 0.365 to the nearest hundredth.

The radius of a circle is 361 cm. What is the diameter of this circle?

How many centimeters in 6.9 meters?

Grandma Jefferson bought 8 journals for her memoirs. There are 656 pages in the journals in all. Each journal has an equal number of pages. How many pages are in each journal?

Adam picked $\frac{4}{6}$ of a bushel of apples. He gave his aunt $\frac{1}{6}$ of a bushel. How much of the bushel of apples does he have left?

Tallman's Turkeys raised 4,421 turkeys in 2004. Trenton Turkeys raised 1,872 more turkeys than Tallman's. Write an equation and solve it to find the number of turkeys that Trenton raised.

How many minutes is it from 6:00 a.m. to 11:45 a.m.?

How much time is it from 9:00 a.m. to 10:20 a.m.?

$$9 \div \frac{1}{6}$$

Name: _____

Max spent $1\frac{3}{4}$ hours cleaning his room on Monday, $1\frac{1}{3}$ hours on Tuesday, and $1\frac{1}{3}$ hours on Wednesday. Finally, it was finished! How many hours did it take him to clean his room?

There were 54,168,905 cartons of leaf lettuces grown in California in 2000. That will make a lot of salad! Write that number in expanded form.

Mary wanted a Levi Strauss & Co. faded blue denim jacket. She found two that she liked. At Kitty's Korner the jacket cost \$60.57. At Elementals, the same jacket cost \$63.04. How much more did the jacket cost at Elementals?

Write the missing family fact.

$$112 \div 14 = 8$$

$$14 \times 8 = 112$$

$$8 \times 14 = 112$$

60, 80, 100, 120,
_____, 160, 180, 200

$$1 + 12 \div 4$$

Emma found a recipe for baked Indian pudding online. The recipe called for one-fourth of a cup of maple syrup, half of a cup of light molasses, and half of a cup of brown sugar. How much "sweet stuff" would be needed to make the recipe?

Alex bought 17 packages of hot dogs for the National Hot Dog Month picnic. Each package weighed 14 ounces. How many pounds of hot dogs did he buy?

David is in charge of laying out the sports pages for the school yearbook. He can use small, medium, or large pictures and place them horizontally or vertically. Draw a tree diagram to illustrate the number of choices he has.

Name: _____

Can you draw lines to cover every number or shape in the picture?

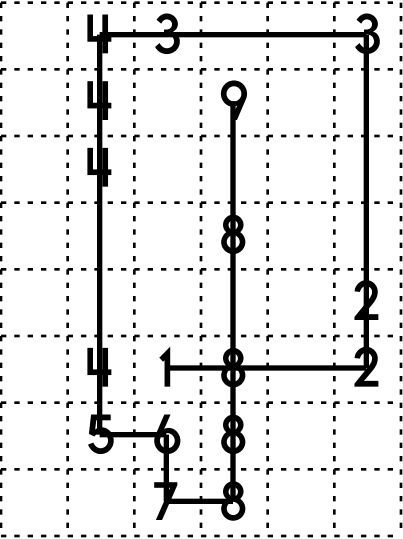
You can only move left, right, up, or down. And definitely no starting or stopping in a blank spot!

The first one is already done for you. Good luck.

Draw exactly 8 lines.

Start on 1.

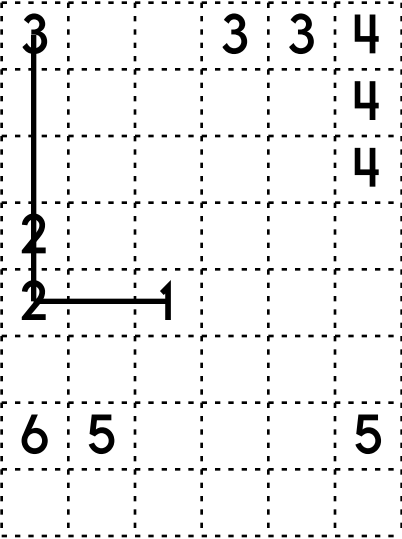
Do not pick up your pencil.



Draw exactly 5 lines.

Start on 1.

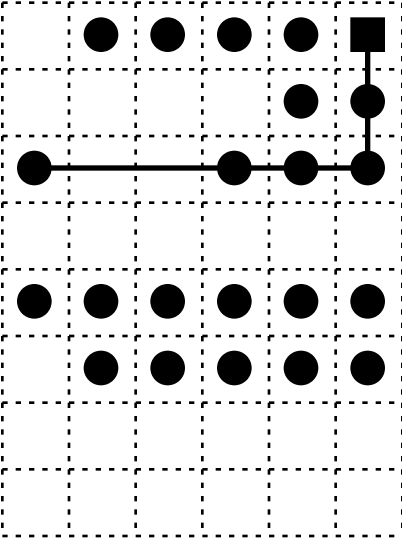
Do not pick up your pencil.



Draw exactly 9 lines.

Start on the square.

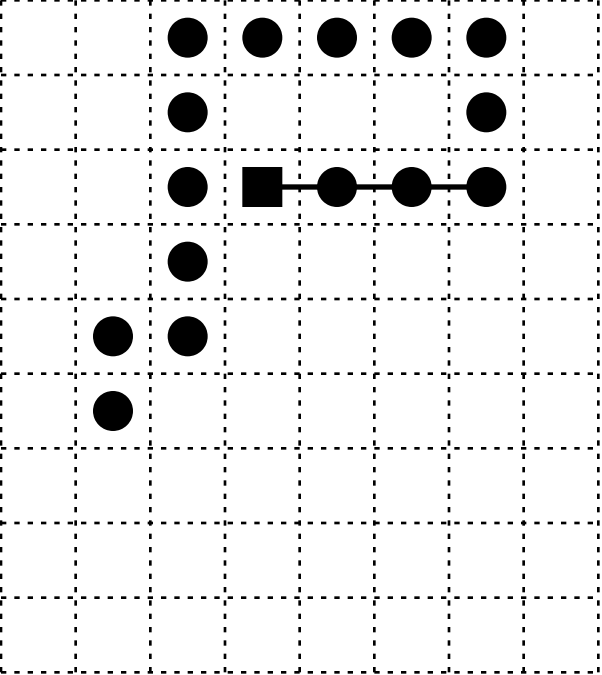
Do not pick up your pencil.



Draw exactly 6 lines.

Start on the square.

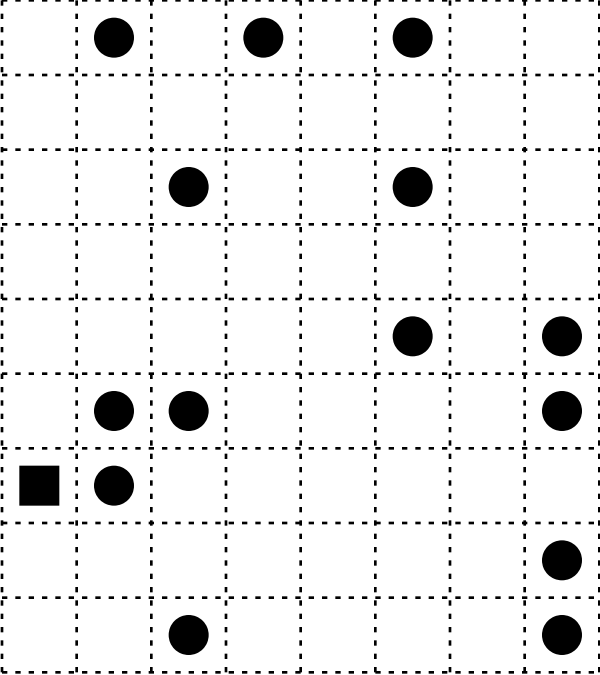
Do not pick up your pencil.



Draw exactly 9 lines.

Start on the square.

Do not pick up your pencil.



Name: _____

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

Jessica has \$61.98. She has 7 bills and 13 coins. How?

	\$5								
25¢									

Megan has \$15.11. She has 2 bills and 13 coins. How?

Connor has \$101.21. He has 8 bills and 10 coins. How?



☐

I did page 17

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edHelper

Name: _____

Get a fidget spinner! Spin it.

I needed to spin _____ time(s) to finish.

Double the number 9 three times.

$$(5 \times 11) \times 2$$

There are 2 groups of 5 rocks. How many rocks?

$$20 \div 5 =$$

Erin has 22 nickels. How much money is that?

Is 355 closer to 300 or 400?

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

Round 976 to the nearest hundred.

9, 11, 13, _____, 17, 19,
21

$$12 \times 6 =$$

$$(5 + 1) + 12$$

Find the product of 9 and 5.

$$\underline{\hspace{1cm}} \div 11 = 3$$

$$7 \times 7 + 3$$

36, 48, 60, 72, 84, 96,
108, 120, _____, 144

Name: _____

The squirrel that lives in the tree by my window loves peanuts. Every morning he comes for a peanut breakfast. It is always the same. He eats four peanuts out of my hand, and then goes back to his tree. One night I dreamed that there were 538 squirrels at my window instead of just one! How many peanuts would I need to feed them if they ate four peanuts each?

It has been very rainy in Rose's hometown this year. It even rained on Splurge Day! Rose couldn't go to the beach! It has rained 3 inches in the last four days. On Monday it rained $\frac{1}{2}$ inch. On Tuesday it rained $\frac{3}{4}$ inch. On Wednesday it rained $\frac{1}{4}$ inch. How much did it rain on Thursday?

Holly has a new job working at Pizzeria Magpie. She loves it, but she can only work three hours on Monday, three hours on Tuesday, and nine hours on Saturday. The pizzeria will give her a check every two weeks. She will be paid \$15.40 per hour. How much will her first paycheck be?

What is the least common multiple of 2 and 5?

What is the least common multiple of 12 and 6?

What is the least common multiple of 12 and 14?

☐

I did page 19

☐I decided to skip this page
edHelper

Name: _____

Match each pattern to its rule.

4.3, 14.62, 49.708, 169.0072 ●

● $\div 3.5$

153.2856, 45.084, 13.26, 3.9 ●

● 210.0875, 60.025, 17.15, 4.9

x 3.7 ●

● x 3.1

 $\div 3.2$ ●

● 39.3216, 12.288, 3.84, 1.2

x 3.6 ●

● $\div 3.4$

9.3, 28.83, 89.373, 277.0563 ●

● 3.5, 12.6, 45.36, 163.296

8.7, 32.19, 119.103, 440.6811 ●

● x 3.4

6.5, 21.45, 70.785, 233.5905 ●

● x 3.3

$12 \times 6 =$

In the equation $24 \times 401 = 9,624$, which number is the product?

Is 34 a composite or a prime number?

You have a playdate in 240 minutes. How many hours is that?

What number is halfway between 0 and 14?

$33 \div 3 = 11$

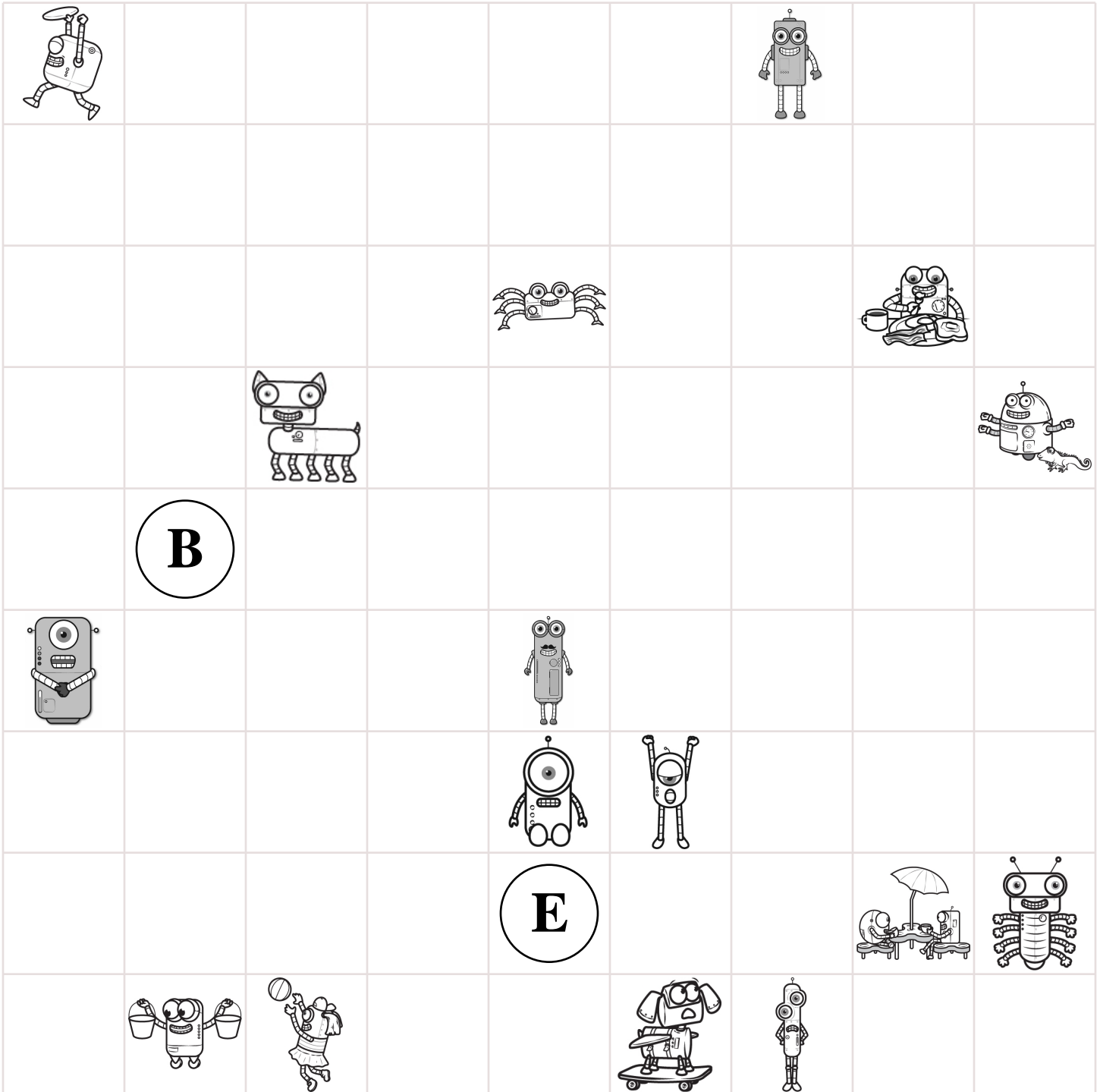
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I did page 20

☐I decided to skip this page
edHelper

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.



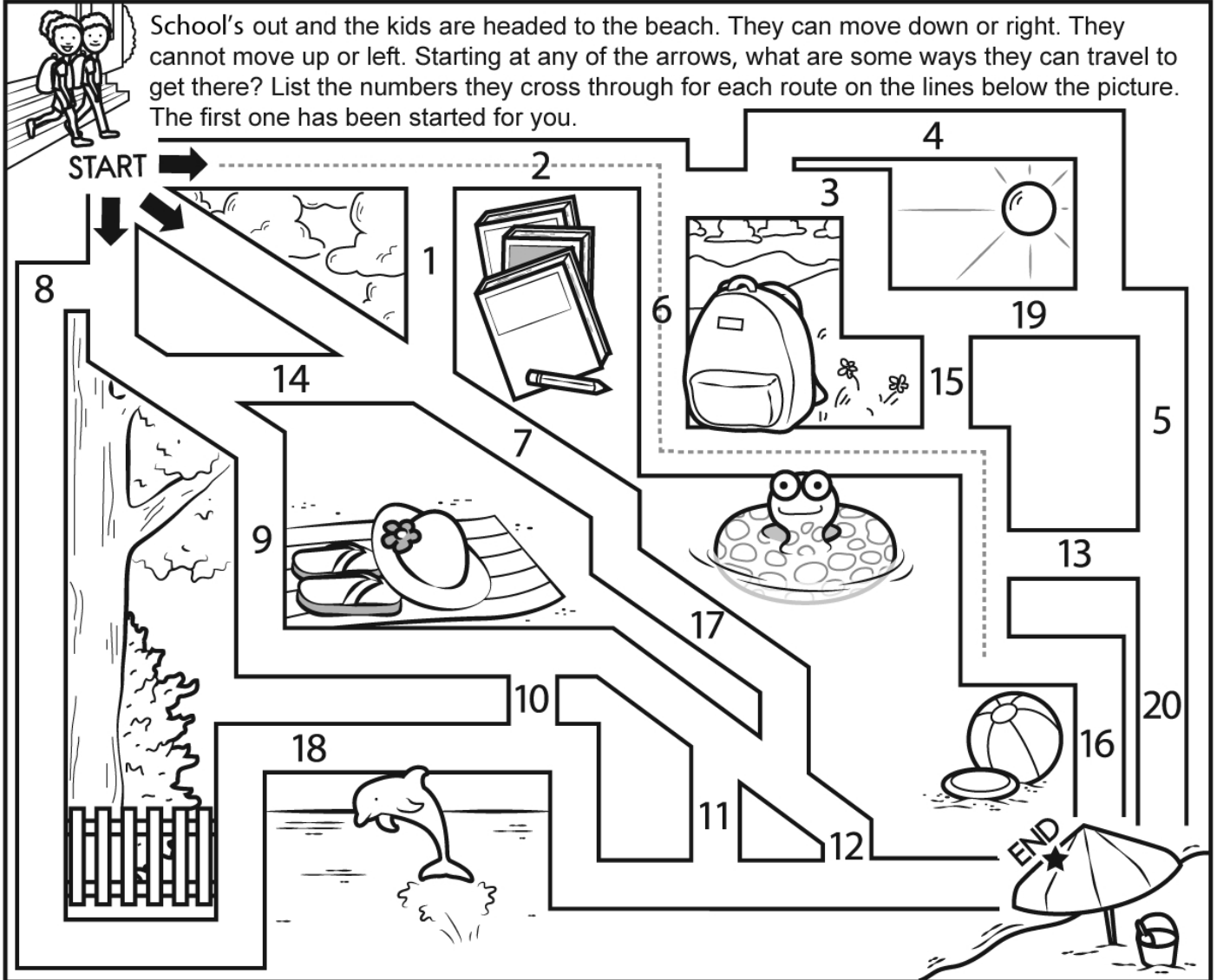
Didn't get them all? That's ok. This was hard. I missed only _____ robot/robots.

Name: _____

Emily just started a job using her bicycle to pick up groceries and deliver them to people in her neighborhood. Once a grocery order is placed on DriveFoodApp, Emily will go pick up the groceries and then deliver them. She has to pay the DriveFoodApp 20%. If the delivery fee is \$50, then Emily has to give the DriveFoodApp company 20% of that. She gets to keep the rest. Today, she had time to do 5 deliveries. The delivery fees were \$15, \$12, \$20, \$18, and \$22. "Don't forget sometimes people tip," adds Emily. "And I get to keep the entire tip." Oh. Sorry! She got tips of \$2, \$3, \$5, \$10, and \$1. How much money did Emily make on deliveries today?

Show your work.

Name: _____



2

6



Name: _____

Cross off the number that does NOT belong.

958759, 875995, 599587, 958759, 875995, 958759, 599587, 958759,
875995, 599587, 958759, 875995, 599587, 958759, 875995

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

23, 96, 21, 85, 19, 74, 17, 45, 63, 15, 52, 13, 41, 11, 30

Why does _____ not belong in the pattern?

Name: _____

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 5.

Every row must contain the numbers 1, 2, 3, 4, and 5.

Every column must contain the numbers 1, 2, 3, 4, and 5.

In a cage with a subtraction sign, the given number will be the difference. The largest number will always be the box with the clue.

4	2-		1-	2
1-	2	4-	1-	
2-	2-	1	3-	
		4	2-	1-
5	1-		1	

Fill in the blanks. These equations are from the puzzle above.

$$\underline{\quad} - 4 = 1$$

$$\underline{\quad} - 3 = 2$$

$$\underline{\quad} - 3 = 1$$

$$2 - \underline{\quad} = 1$$

$$\underline{\quad} - 2 = 3$$

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

$$3 - \underline{\quad} = 1$$

$$2 - \underline{\quad} = 1$$

Name: _____

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

Use the fewest bills and coins to make \$17.28.

\$10			
25¢			

Use the fewest bills and coins to make \$56.53.

Use the fewest bills and coins to make \$57.28.

Use the fewest bills and coins to make \$22.54.



Name: _____

It was such pandemonium! Sarah needed to make as many 6 square inches of paper as possible for an art project. She had three pieces of paper. One was 7 inches long and 9 inches wide, one was 8 inches long and 8 inches wide, and one was 7 inches long and 7 inches wide. How many pieces of 6 square inches can Sarah make from her three pieces of papers?

The parents of the students at Amelia School decided to buy new books for the school's library. The librarian gave them a list of books that were needed along with the price of each book. The parents chose 71 books. 15 of the books cost \$19.33 each, 14 cost \$28.50 each, 17 cost \$20.80 each, and the rest of books cost \$40.36 each. How much did the parents spend in all?

A toy car can go 3 mph. How long would it take to go 11 miles?

16, 32, _____, 64, 80,
96, 112, 128

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

Erin bought some candy. It tasted just like black cow root beer floats! She had 30 pieces of candy. She gave 5 pieces of candy to each of 3 friends. She gave $\frac{2}{5}$ of the rest of the candy to her sister. How many pieces of candy did she have left?

A cookie recipe calls for $\frac{1}{4}$ cup of granulated sugar and $\frac{1}{3}$ cup of powdered sugar. If Jacob doubles the recipe, what is the total number of cups of granulated sugar and powdered sugar he will need?

To reach his potential, Nathan wants to increase his running speed by $\frac{2}{3}$ mile/hour. If he increases his speed at the rate of $\frac{1}{10}$ mile/hour each month, how long will it take him to reach his potential?

Name: _____

Find 2 equations hidden in each box. Good luck!

702

 $703 + 98$

462

904

 $13 + 372$ $737 + 42$ $191 + 11$ $117 + 28$

757

 $584 + 63$

202

846

 $862 + 50$

625

385

 $48 + 966$

536

Write 2 equations: _____

 $6 - 0$ $7 - 2$

1

 $9 - 1$

6

 $5 - 3$ $8 - 4$

2

Write 2 equations: _____

24

 1×6

3

 8×5 1×1 0×6

15

 3×3

32

 8×8

72

 6×4

36

 5×3 4×1 1×2

48

Write 2 equations: _____

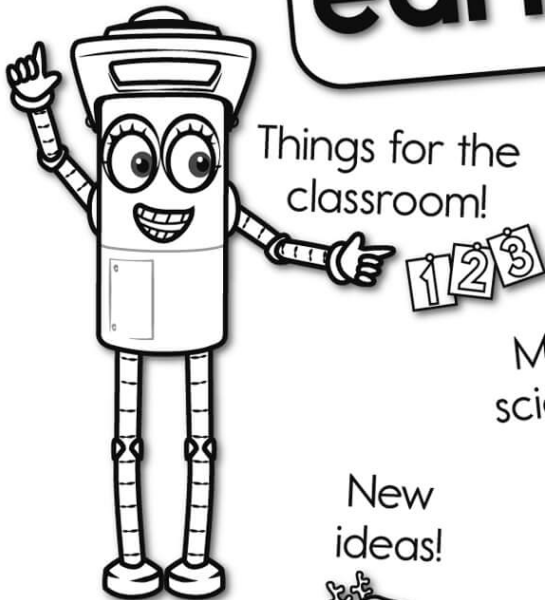


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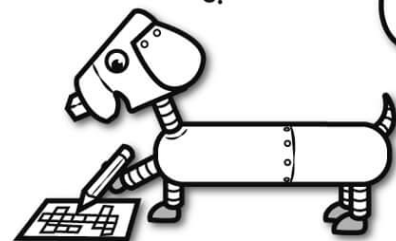
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classroom!



More
science!



More
puzzles!



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history!

