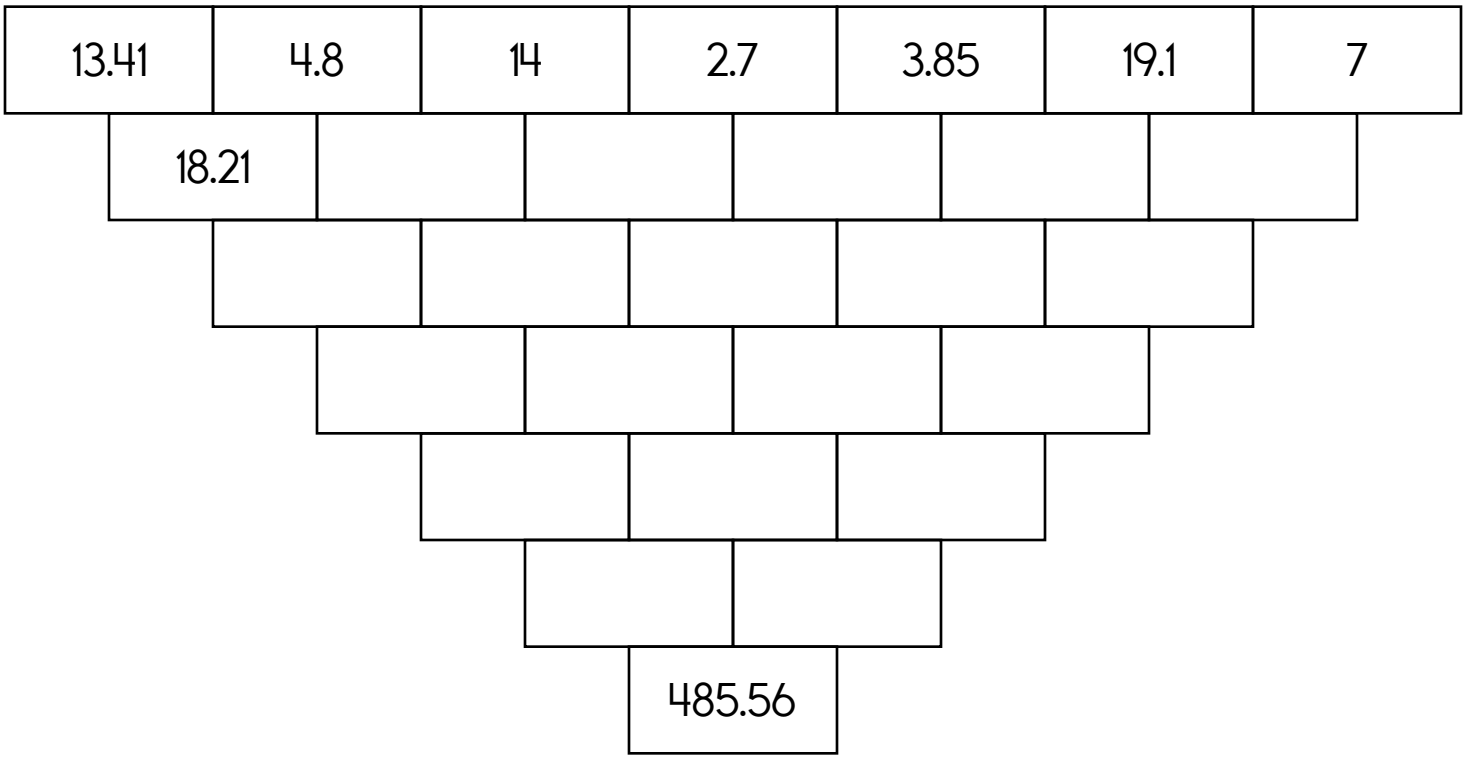
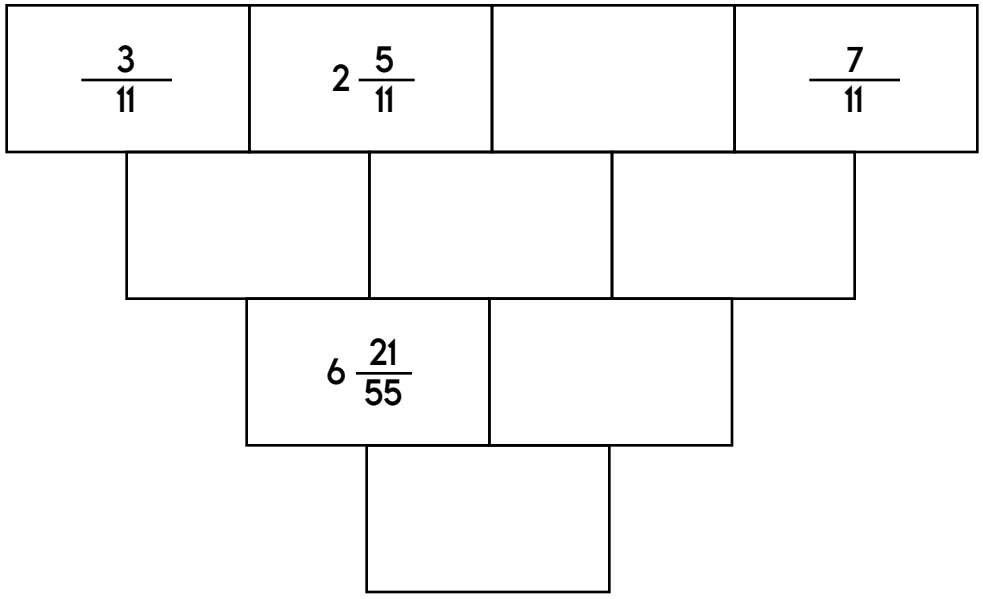
**Name:** _____

The block below is the sum of the two blocks above. Fill in the missing blocks.




What time is 16 hours after 4:00 a.m.?

_____

16 ÷ 8 = _____

$$\begin{array}{r} 60 \\ -\ 25 \\ \hline \end{array}$$

4 x 12 = _____

word root **kin** can mean **motion** **telekinesis, kinetic**

**Name:** _____

(10 - 10) + 9 x 3

153, 162, 171, 180, _____,

198, 207, 216

Round 89,222 to the nearest hundred.

What is the area of a rectangle with sides 5 cm and 10 cm?

The diameter of a circle is 556 cm. What is the radius of this circle?

It was 8 degrees below zero in the morning. By afternoon the temperature rose 26 degrees. How warm was it?

If x = -8 and s = 39 then what is the value of d?
11x + 12s - 3s = d

$15.8025 \times 10^4 =$

p - $68 = $21
What is the value of p?

Rewrite as an algebraic expression or equation.

Four more than s tripled is one hundred two.

A circle graph has four sections. Only three sections are labeled. The labels are 20.08%, 23.23%, and 10.69%. What should the missing section be?

A circle graph has five sections. Only four sections are labeled. The labels are 15%, 14%, 18%, and 11%. What should the missing section be?

If 5x = 65, then x =

What is the greatest common factor of the numbers 60 and 36?

48 ÷ 8 - 2

**Name:** _____

If it is -17°F in Rantoul and it is 72°F in Honolulu, what is the temperature difference between the two cities?

The number of coyotes in the area around Big Town has changed over the years. During the previous survey, which was done two years ago, there were estimated to be 583 coyotes. The most recent survey indicates the coyote population has increased by 4%. If this is true, what is a good estimate for the number of coyotes presently around Big Town?

At the Megalopolis Zoo they make a special feed to provide to their exotic birds. It is (by mass) $\frac{1}{3}$ super meal, $\frac{1}{8}$ commercial birdseed, and one-eighth cracked corn. The rest is made up of Nutro Feedofill. How much commercial birdseed is required to make 144 kilograms of the special feed? If the answer is not a whole number, express your answer as a fraction.

With the help of Mr. Bloop, some middle school students measured the growth rate of a fungus. An old fashioned (but still useful) apparatus called a race tube was used. A small piece of the fungus was placed at one end of a long tube that had a layer of growth medium filling it about half way. Then the distance the fungus grew down the tube was measured each day. At the end of three weeks the fungus had advanced 24 cm along the tube. What was the average speed of advance of the fungus in m/s? Express your answer using scientific notation.

Jacob bought a very large star map for his bedroom wall. The map is round. Its radius is three feet. What is the circumference and area of the wall map?

A racecar goes from 150 MPH to zero MPH in 21 seconds. What is the car's acceleration? Round your answer to the nearest tenth.

**Name:** _____

Peter spent $12.36 for a cheese pizza and $1.35 for each of the two toppings. How much did he spend in all?

It was such pandemonium! On Friday, 286 students brought their pets to school. Two-thirds of the pets were dogs. How many were not dogs?

The Midtown Thrift Shop had total sales of $418.05. Of that amount, $266.36 was for clothing. How much of the total sales was not for clothing?

Erin rolls two dice. What is the chance of her rolling a 6 on one die and a 3 on the other die?

_____

9 x 4 = _____

$$\begin{array}{r} 801 \\ -\ 179 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ +\ 21 \\ \hline \end{array}$$

Which is the better buy? Five bags of candy for $45 or nine bags of candy for $63?

40 ÷ 5 = _____

$$\begin{array}{r} 374 \\ +\ 291 \\ \hline \end{array}$$

43,613 + 45,481 = _____

In the number 9,304,839, the digit 4 is in what place?

_____

**Name:** _____

Jenna likes to change numbers into a secret letter form. Jenna changed the number 5,266 to QQQQ. Jenna changed the number 243,391 to QQQQQQ. Jenna changed the number 347 to QQQ. Jenna changed the number 34,685 to QQQQQ. How do you think she would change the number 59?

_____

How many kilograms are in 7,000 grams?

_____ kilograms

Write this as a number in standard form. Use a comma in your number.

two hundred fifty-one thousand four hundred forty-six

_____

Jessica is giving out candy, but you need to guess her favorite number if you want some. Her favorite number has three digits.
One digit in her number is eight.
The tens digit is 7 more than the units digit.
The three digits add up to fifteen.
The hundreds digit is 5 more than the units digit.

Are you going to get candy?

1 lb = 16 oz

27 lb = _____ oz

For 718,248,188, write the digit that is in the hundred thousands place.

_____

1,548 - 1,329 = _____

48 ÷ 8 = _____

25 kg = _____ g

72 ÷ 12 =

9 x 12 =

863 + 943 = _____

Circle the addition property for 60 + 163 = 163 + 60.

associative property

commutative property

**Name:** _____

Circle the smallest number:

754,260 630,914,852,739

81,319 8,426

981 + 614 = _____

Make a decimal number. Start with a zero and a decimal point. Then use these numbers: 8, 8, and 6. Make three different decimal numbers. Put your theee decimal numbers in order from largest to smallest.

Write the numbers 40 to 65 on a sheet of paper.
How many of these numbers are divisible by 4?

_____

71,699 - 37,746 = _____

Can 810 be evenly divided by 10? Circle:

810 is evenly divisible by 10

810 is NOT evenly divisible by 10

Circle the greatest number:

6,219,780

130,457,543

8,926

716,289,504,337

Write 57,200 in words.

_____

3 x 4 = _____

9,287 - 8,589 = _____

28 ÷ 4 =

33 ÷ 11 = _____

(4 + 3) + 7 =

22 ÷ 2 = _____

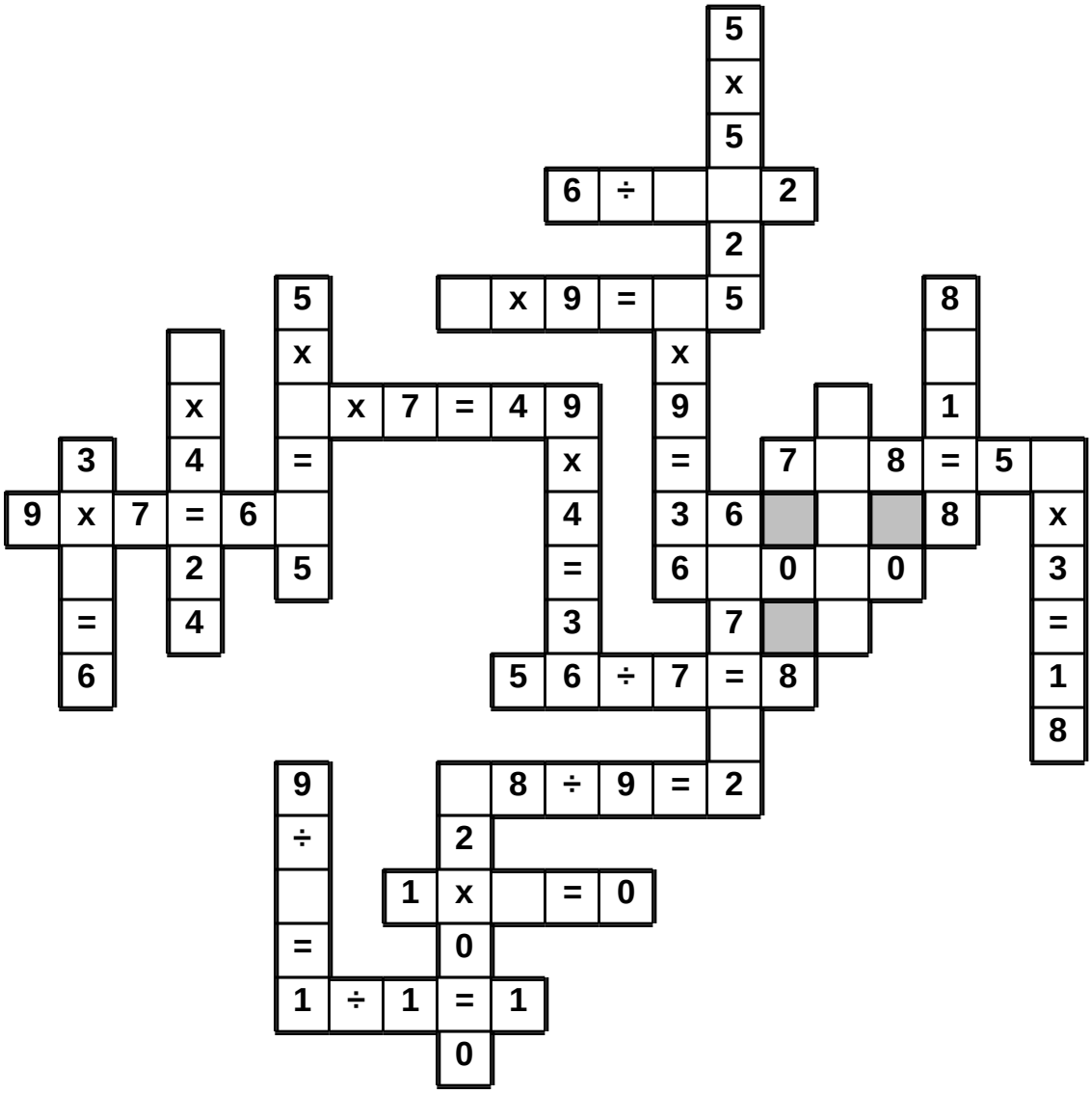
The letters H and W each have a line of symmetry. Name another letter between H and W that has a line of symmetry.

_____

**Name:** _____

3 • = • 5 • 4 • 6 • x • 7 • 0 • x • 6 • 3 • 4 • 2 • x • = • 0
4 • 1 • 9 • 0

Use the pieces above to help you fill in the runaway math puzzle.




| | | |
|---|---|---|
| 3 x 7 = | 66 ÷ 11 = _____ | Wendy rolls a die. What is the chance of her rolling a 1? _____ |
| 4 x 8 = _____ | 11 x 12 = _____ | |

**Name:** _____

A family medical practice has four doctors that work during the day (Dr. Jones, Dr. Whitley, Dr. Curry, and Dr. Diaz). The computer somehow mixed up the records for some of the appointments (10:00 a.m., 9:15 a.m., 10:50 a.m., and 10:15 a.m.). The nurse who is trying to fix the records knows that Nicholas, Brian, Kyle, and Christian made the appointments. The patients have already been to their doctor a different number of times (zero, one, two, and three).

Help the nurse by figuring out which doctor each patient is going to see, the number of times they have already seen the doctor, and the time of their appointment.

1. Christian has been to the doctor either three or zero times.
2. Dr. Jones did not schedule any appointments before 9:55 a.m.
3. The person who has an appointment at 9:15 a.m. has already been to the same doctor, however the patient is not the one who has been to the doctor either three or zero times.
4. Dr. Whitley did not schedule any appointments before 10:30 a.m.
5. Dr. Diaz is not currently accepting new patients.
6. Dr. Whitley read in his charts that his patient has previously seen him two times.
7. Dr. Jones read in his charts that his patient has previously seen him three times.
8. Brian's appointment is 1 hour after Kyle's appointment.
9. The person who has an appointment at 10:15 a.m. has already been to the same doctor, however the patient is not the one who has been to the doctor either zero or one time.
10. Nicholas' appointment is after Christian's and also after Brian's.

Dr. Jones is going to see _____ at _____. This patient has seen Dr. Jones _____ time(s).

Dr. Whitley is going to see _____ at _____. This patient has seen Dr. Whitley _____ time(s).

Dr. Curry is going to see _____ at _____. This patient has seen Dr. Curry _____ time(s).

Dr. Diaz is going to see _____ at _____. This patient has seen Dr. Diaz _____ time(s).

**Name:** _____

Complete each analogy with the best word.

| | |
|---|---|
| pumpkins | evaporation |
| cucumbers | photography |
| weather | trench |
| mid-ocean ridge | ant |
| delighted | far away |
| magazine cover | cricket |
| January | butterfly |
| watermelons | frightened |

spring : May ::

winter : _____

summer : tomatoes ::

autumn : _____

microscope : very small ::

telescope : _____

gas to liquid : condensation ::

liquid to gas : _____

journalist : newspaper article ::

graphic designer : _____

tadpole : frog ::

caterpillar : _____

embarrassed : uncomfortable ::

happy : _____

shallowest : continental shelf ::

deepest : _____

diet : food ::

climate : _____

catsup : tomatoes ::

pickles : _____

O T N A U Q S S E N A N B N A A H
E D P A E R P D N E E S M R A R E
S N T E Y O P A U T E Y L U C K I
H R E G H B S U G O P E T E D A R
T O E A R B G S U J L T M S P N O
U T U I S E O E O P E C I R O S D
O A E R H R R T T O N C S U A A I
M D I R R Y E T C R O G S S C S T
W S U A O C I L M S I O O R H L E
E P R M U W L E E S T T U A I O E
B V L O D H O M M T N E R E N T X
R U A G A B H E T G E E I P G A P
T N T P O P I N K E T C H U P R E
H S S T O L D T S O E D N P V P D
H C A I E R D U C F D O B I A T I
I T Q N M R A F P U M P K I N S T
O E E U O U F T I R O A Y B O O I
O G N U A A E L I S N O G E R O O
E A T H Y N R R Y O H T Y D T T N
N C U F L E W R A E N N O D E M P

FLEW • BUTTERFLY • SHROUD
MISSOURI • PEARS • SQUANTO
MARRIAGE • ARKANSAS
GOLDFISH • CLOUD
SETTLEMENT • EXPEDITION
MOUTH • KETCHUP
POACHING • DETENTION
PUMPKINS • OREGON
EVAPORATION • ROBBERY

**Name:** _____

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

| | | | |
|---|---|---|---|
| 38% of 150 | 76% of 75 | 25% of 188 | 100% of 91 |
| 40% of 50 | 85% of 140 | 72% of 50 | 47% of 100 |
| 68% of 175 | 52% of 50 | 20% of 170 | 45% of 80 |
| 26% of 100 | 20% of 100 | 52% of 175 | 17% of 200 |

$\frac{10}{?} = \frac{20}{22}$

Write the ratio as a fraction in lowest terms.
3 nickels to 7 dimes

$\frac{1}{6} = \frac{8}{?}$

$6 \times 6 \times 6 \times 6 \times 6 = Z^y$

What is the value of Z and y?

$|-14| - j = 6$

$j =$

$6 + (52 \div 4) - 32 \div 8 =$

What is the mode of the following number set?

95, 87, 84, 81, 79, 93, 80, 82, 89, 92, 83, 85

$0.1 \cdot 6 =$

$(12 + 14 + 15 + 3) =$

**Name:** _____

24% of 175 =

$\frac{24}{100}$ x 175 = 0.24 x 175 =

$$\begin{array}{r} 0.24 \\ \times\ 175 \\ \hline \end{array}$$

90% of 780 =

$\frac{90}{100}$ x 780 = 0.90 x 780 =

$$\begin{array}{r} 0.90 \\ \times\ 780 \\ \hline \end{array}$$

88% of 350 =

$\frac{88}{100}$ x 350 = 0.88 x 350 =

$$\begin{array}{r} 0.88 \\ \times\ 350 \\ \hline \end{array}$$

52% of 25 =

$\frac{52}{100}$ x 25 = 0.52 x 25 =

$$\begin{array}{r} 0.52 \\ \times\ 25 \\ \hline \end{array}$$

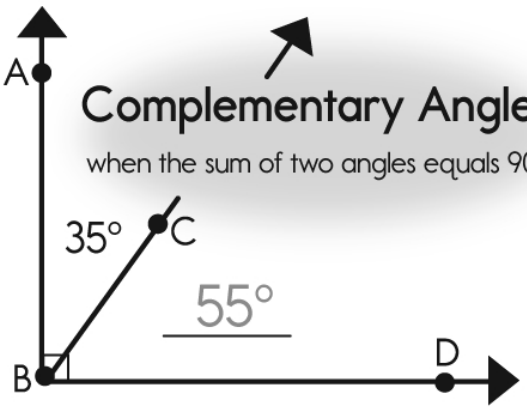
5% of 180 =

75% of 720 =

**Name:** _____

## Complementary Angles

when the sum of two angles equals 90°

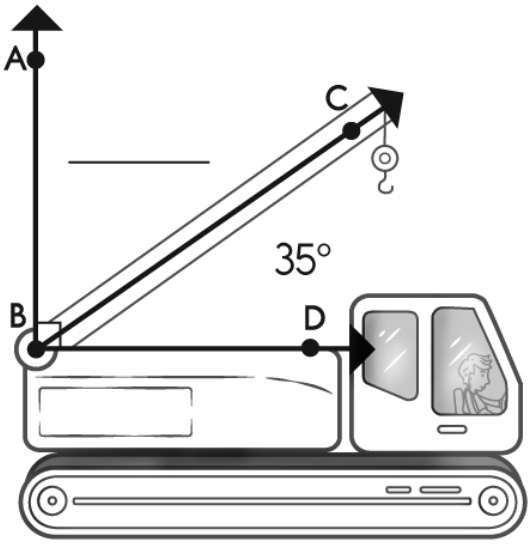


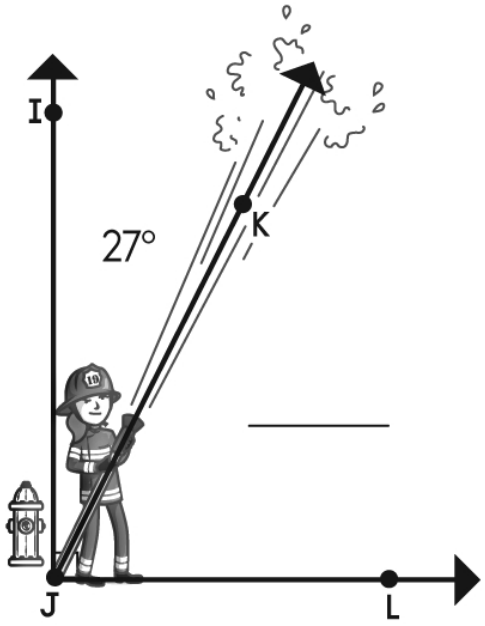

$\angle ABC = 35°$

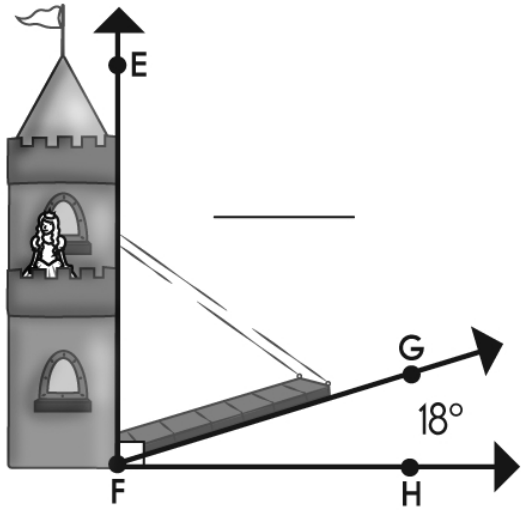
$\angle DBC = 55°$

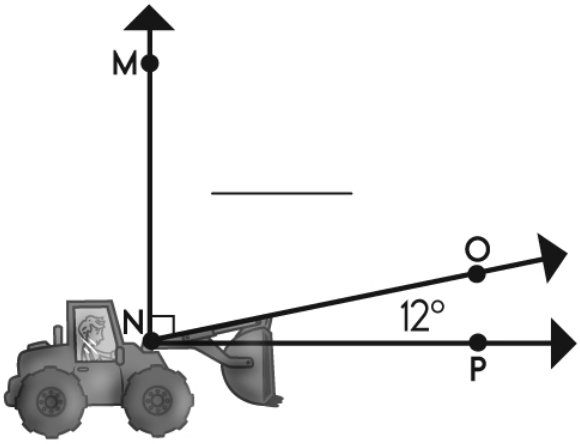
$35° + 55° = 90°$

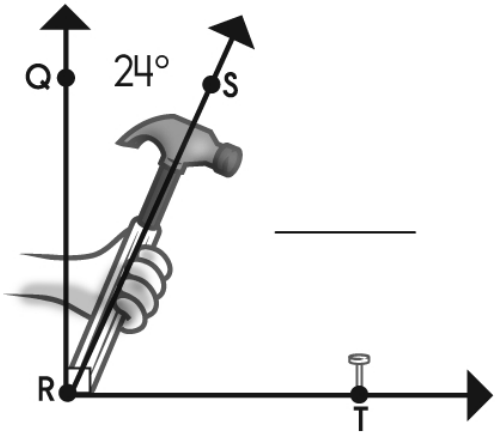
Find the complement of each angle.



**Name:** _____

Write an expression.

Subtract 9 from $t$

$t - 9$

Write an expression.

14 more than $5y$

Write an expression.

Sum of $\frac{1}{3}$ and $q$

Write an expression.

Divide $6x$ by 8

Write an expression.

Multiply 6 by $m$

Write an expression.

$6d$ less than 14

Evaluate when $p = 77$.

$344 - p$

Evaluate when $w = 9$.

$6w + 20{,}703$

Evaluate when $v = 4$.

$3v - 8$

Evaluate when $t = 3$.

$3 + 5t$

Evaluate when $x = 4$.

$9x + 13 + 8x$

Evaluate when $m = 15$.

$\frac{8m}{3} - 5$

**Name:** _____

$\frac{N}{2} = 2$

$14n = 112$

$\frac{N}{48} = 45$

$6y = 18$

$30 \div \_\_\_ = 10$

What is the missing number?

$88 \div N = 11$

What is the value of N?

$\frac{???}{5} = 8$

What is the missing number?

$\frac{N}{7} = 11$

What is the value of N?

$10y = 30$

$2 \times \_\_\_ = 22$

What is the missing number?

$3 \times N = 15$

What is the value of N?

$\_\_\_ \times 5 = 25$

What is the missing number?

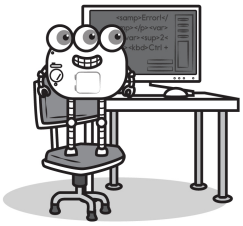
$N \times 7 = 42$

What is the value of N?

**Name:** _____

| | | |
|---|---|---|
| -9 x -4 = | -48 ÷ 12 = | 8 x -2 = |
| -12 - 5 = | 3 - 4 - 15 = | -5 - 6 = |
| 44 ÷ -4 = | -35 + 20 = | 7 x -12 = |
| -96 ÷ -12 = | -11 + -9 = | $\frac{-70}{10}$ = |
| -12 - 4 = | 8 + -9 = | -27 + 22 = |

**Name:** _____



Robot wrote this program to solve a math problem.

```
# Giving variable names to each number
tulips = 122
irises = 103

# Computing the total number of flowers planted
total_flowers = tulips + irises

# Displaying the total number of flowers planted
print("The total number of flowers planted is", total_flowers)
```

What will the program print out? Fill in the blanks.

**The total number of flowers planted is ____ ____ ____**

Wait! Robot forgot to write down the math problem.
Can you write your own word problem to explain Robot's computer code?

**Name:** _____

Show the steps to solve 9(37 + 7 + 13) x 11 ÷ 3 - 62.

Step 1. Parentheses

Step 2. Exponents

Step 3. Multiplication & Division (or Division & Multiplication!)

Step 4. Addition & Subtraction (or Subtraction & Division!)

Rosa is mapping an imaginary trip from point (-11, 6) to (4, 6). She liked (4, 6) so much that she was there for 12 days! Then she went to visit point (4, 4). Aren't you jealous? If 1 unit = 110 miles, how many total miles did she travel?

**Name:** _____

April can't wait for her friend to visit.

"As soon as you leave the airport, drive 28 miles to exit 5," says April.

"I don't think you mean miles. They use kilometers here," says Jenna.

Help April tell Jenna how many kilometers to drive. Use 1 mile = 1.6 kilometers.

"Hey, Ted!" called out his friends. But Ted didn't reply. He was texting. They don't call him Texty Ted for nothing! Ted can send 13 texts in 2 minutes and 23 seconds. At precisely 7:21 and 0 seconds, Ted sat outside the school and started to send texts. He sent texts until 7:59 and 0 seconds when his phone ran out of power. How many texts do you think Texty Ted completed and sent?

**Name:** _____

| x | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | | | | | | | | | 18 | | | |
| 11 | | | 33 | | | | | | | | | |
| 8 | | | | | | 48 | | | | | | |
| 12 | | | | 48 | | | | | | | | |
| 4 | | | | | | | | | | 40 | | |
| 9 | | | | | | | | | | | | 108 |
| 3 | | | | | | | 21 | | | | | |

51,254 + 72,672 = _____

12 x 8 = _____

Anna is going to roll two dice. What is the chance that her total will be either 6 or higher on her first roll?

Write the missing family fact.

100 - 51 = 49
49 + 51 = 100
100 - 49 = 51

_____

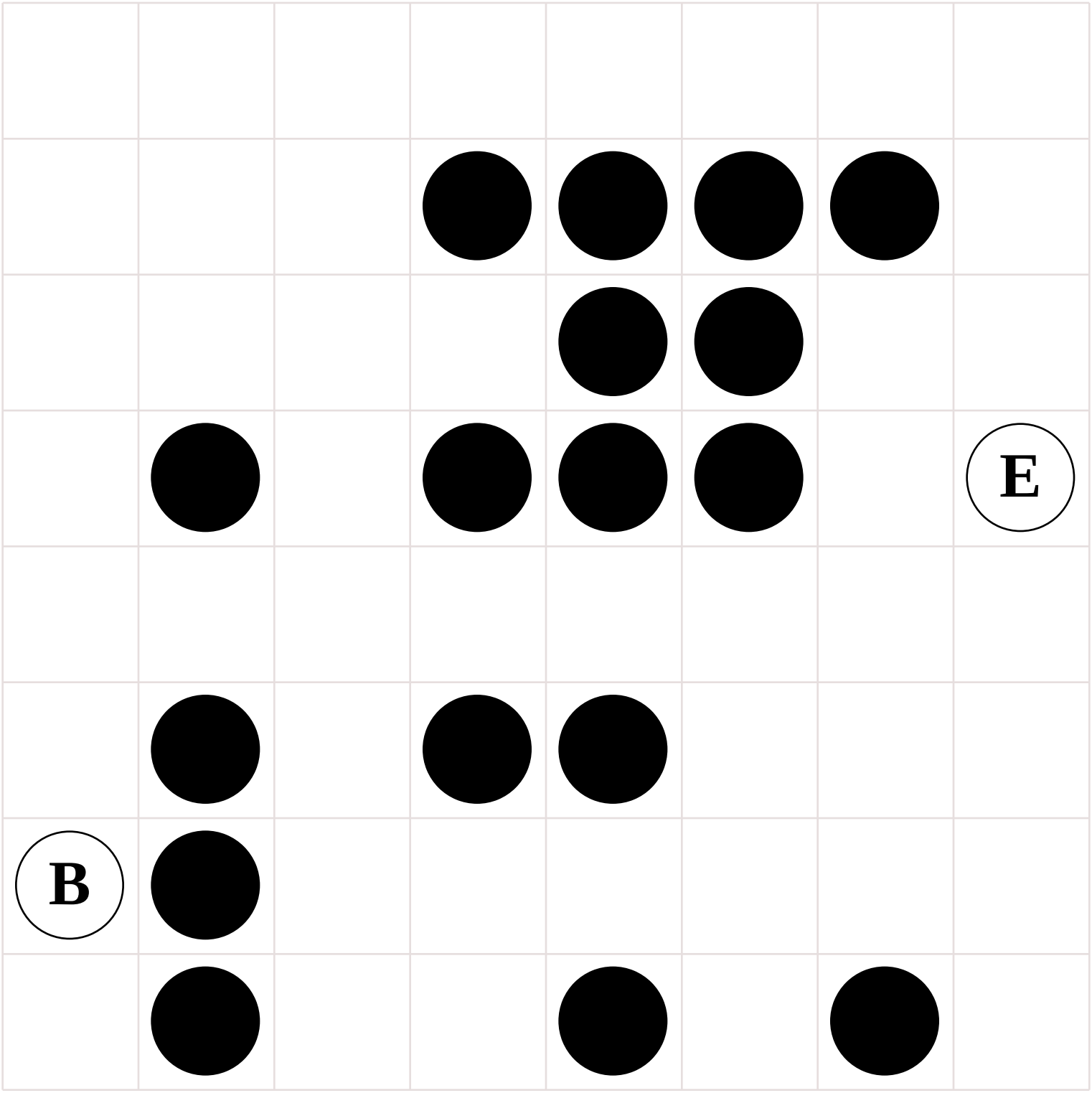
861 - 848 = _____

8 x 4 = _____

7 x 8 = _____

Name _____ Date _____

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 circle. No stopping on an empty box.** Try to collect all the circles and finish your last line on the **E** circle. You can go through a circle more than once.




**Didn't get them all? That's ok. This was hard.**

**I missed _____ circle(s).**

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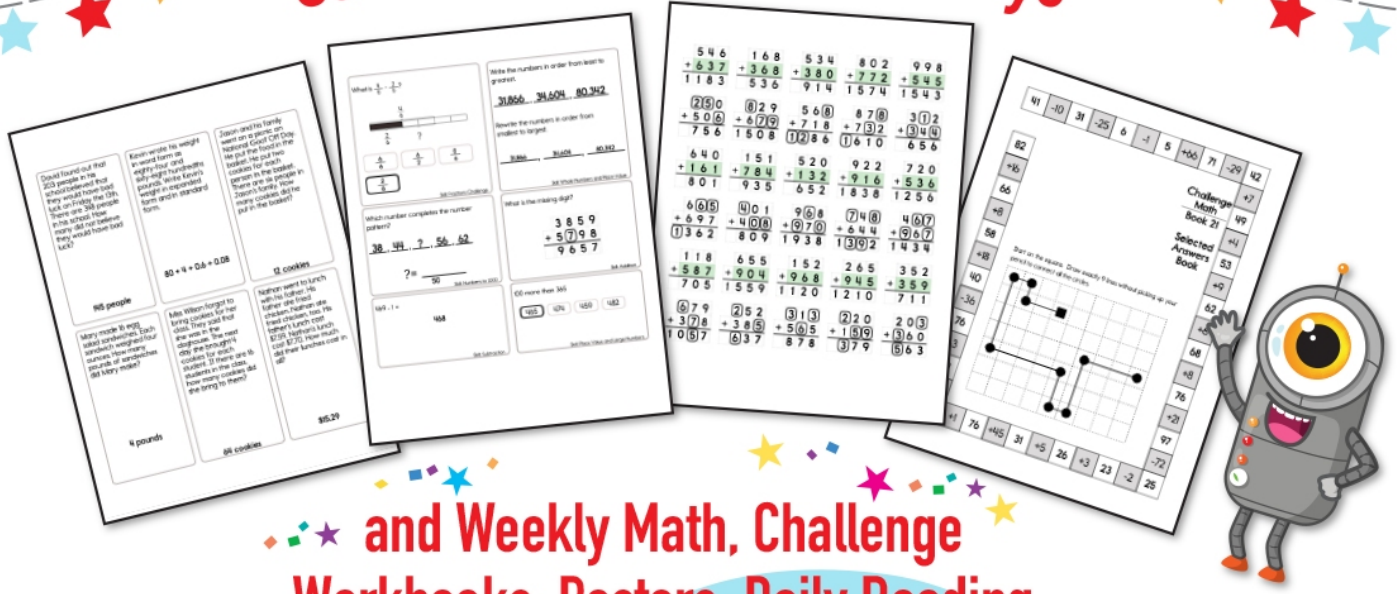

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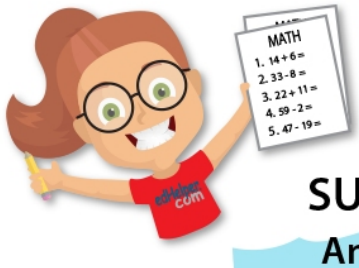



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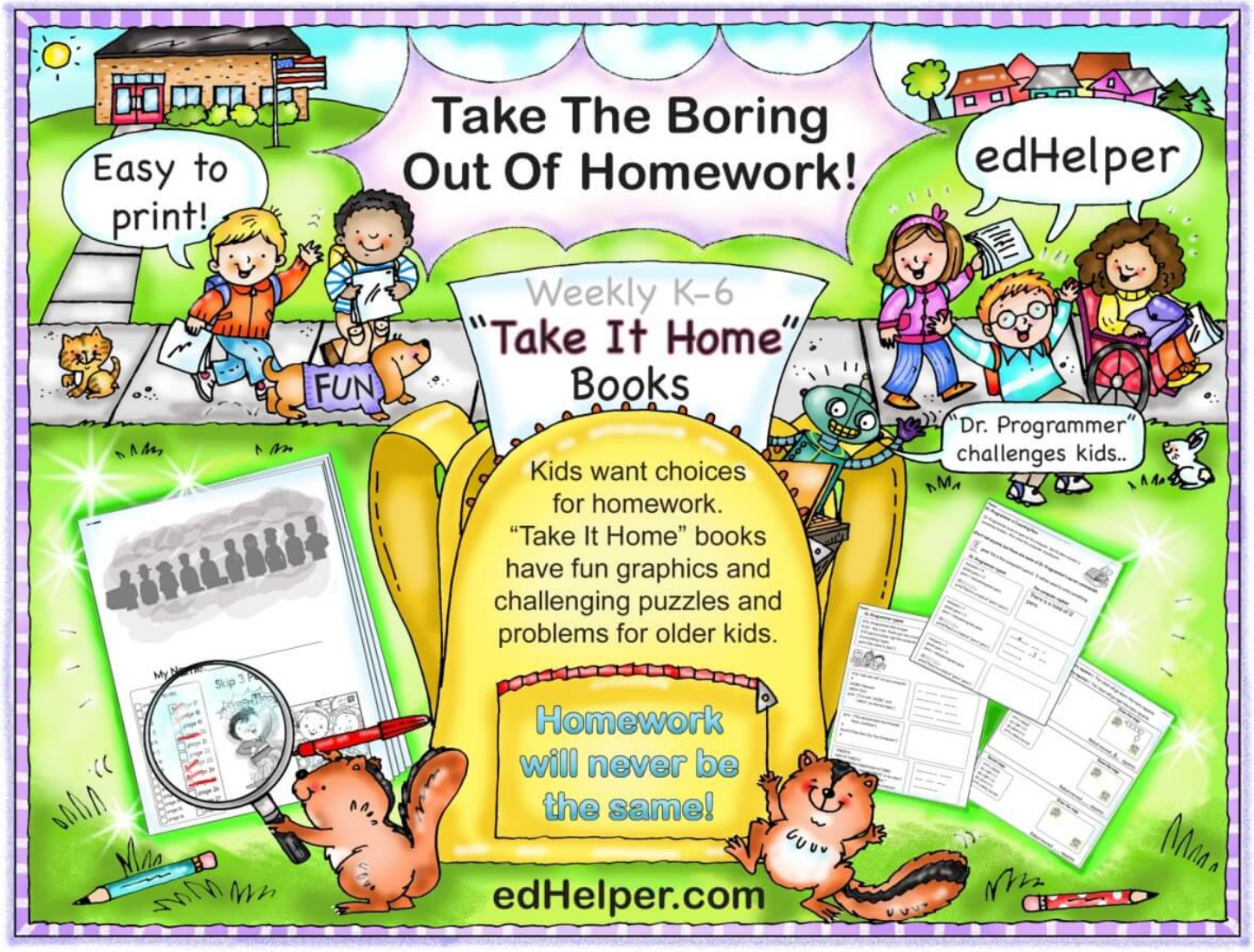
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