- 1. 6 × 3
- 2. How many ears do eight dogs have in all?
- 3. If n + 2 = 7, then n =
- 4. There were eight bugs on the ground. Now there are six. How many flew away?
- $5. 2 \times 3 \times 2$
- 6. If  $4 \times 6 + n = 31$ , then n =
- 7. Identify the pattern: 3, 6, 9, 12
- 8. Seven bicycles have how many wheels in all?

- 9. 3 weeks ... 20 days
- 10. 1 cm ... 1 in.



- 1. 3 × 5
- Four dollars is equal to how many pennies?
- 3.  $2 + 5 \times 2$
- 4. 5+8-3
- Identify the pattern: 0, 4, 8, 12
- $0 \times 5,132$
- $8. 32 \div 2$
- The product of four and three.
- The sum of five and four.



- 2.  $2,463 \times 0$
- 3. Identify the pattern: 1, 10, 2, 9, 3
- 4.  $\frac{8}{4}$
- *5.* 48 ÷ 8
- 6.  $8 + 6 \div 3$
- 7.  $3 + 4 \times 3$
- 8. How much does each apple cost?
- 9. 5 + (3 1)
- 10. The difference between 9 and 5.













- Identify the pattern: 1, 5, 9, 13
- $10 4 \times 2$
- 4.  $84 \div 1$
- Does Ellen spend more time on homework or sports?
- 6.  $4 \times 3 + 5 \times 1$

For questions 7-10, use a=2, b=3, and c=6

- 7. a + b
- ac
- 2*b*



rad









For questions 1-5, use a=8, b=2, and c=1/2

- **1**. a + b
- 2. b + c
- *3. ab*
- 4. ca
- *5.* 4*a*
- 6.  $\frac{1}{2}$
- 7. Identify the pattern: 1, 2, 4, 8
- 8. The sum of 8 and 7.
- 9. The difference between 9 and 3.
- 10.  $10 3 \times 3$

# Math Minutes: Middle Grade Minute 6



2. 
$$5^2$$

$$3. 2 \times 2 \times 2$$

- Which number is in both *A* and *B*?
- 5.  $10-5\times2$
- $6.6^2$
- 7.  $1 \times 1 \times 1 \times 1$
- Identify the expression that is equal to  $5 \times 5 \times 5$ :

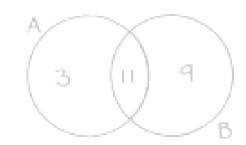








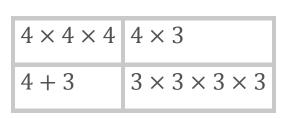




5 × 3	3 × 5
5 <sup>3</sup>	3 <sup>5</sup>

- 1.  $8^2$
- 2.  $4^2 6$
- 3. A trio and a quartet got together and played a song. How many musicians were there?
- 4.  $2 + 3 \times 3 + 2$
- *5*. 36 ÷ 2
- $6. 10^2$
- 7.  $\frac{1}{2} \times 10$
- $8. 3 \times 2 \times 1$
- 9. Identify the expression that is equal to  $4^3$ :

10. 
$$\frac{4}{2}$$



# Math Minutes: Middle Grade Minute 8



2. 
$$\frac{18}{3}$$

Identify the expression that is equal to  $5^3$ :

4. If 
$$8 + y = 15$$
, then  $y =$ 

5. 
$$15 + 3 \times 2$$

Scott ate half of the pizza How many pieces did he eat?

7. 
$$35 \times 35$$

8. 
$$\frac{1}{2(12)}$$

$$9. 2 \times 5$$









5 × 3	$3 \times 3 \times 3 \times 3 \times 3$
$3 \times 5$	$5 \times 5 \times 5$



# Math Minutes: Middle Grade Minute 9

- 1.  $7^2$
- 2. If 4r = 24, then r =
- 4. 5(4+2)
- 5.  $6 + 4 \times 2$
- 6. If s 8 = 9, then s =
- 7.  $45 \times 45$
- $8. 2^3$
- If there are fifty dimes in a roll of coins, then it is equal to how many dollars.
- The product of eight and nine.

1. 
$$\frac{1}{2(20)}$$

2. 
$$\frac{20}{4}$$

$$3. (4+4)^2$$

- The quotient of 27 divided 3.
- One half of fifty
- Identify the pattern: 128, 64, 32, 16
- $256 \times 0$

For questions 8-10, use a=5, b=4, and c=2.

- ac
- 9. 2a





- **1.** If a + 15 = 19, then a =
- 2. If b = 2, then  $b^3 =$
- 3. 8(4+3)
- 4.  $10 + 4 \times 2$
- 5. Five cars have how many wheels altogether?
- 6. If 3n = 18, then n =
- $7. \quad 50 \times 50$
- 8. Eight squared.
- 9. If y 4 = 11, then y =
- 10. What time is shown on the clock?





- 2. Six ducks have how many feet in all?
- 3.  $(8-3)^2$
- 4.  $\frac{1}{2} \times 16$
- 5. Three squared
- 6.  $8 \times 1 + 4 \times 2$
- 7.  $8 3 \times 2$
- 8. Five dollars equal how many pennies?
- 9. If a = 5, then  $a^2 =$
- **10.** Four weeks is how many days?

1. 
$$3(4+2+1)$$

2. If 6 pennies are in each pile, how many pennies are in nine piles?

3. If 
$$9 - x = 3$$
, then  $x =$ 

$$4. 7 \times 4$$

5. 
$$12 - 3 \times 4$$

7. If 
$$65 + a$$
, then  $a =$ 

8. Twenty-four divided by eight

9. If 
$$a = 9$$
, then  $5a = 9$ 

**10**. Twelve quarters is equal to how many dollars?

- 1.  $15 3 \times 2$
- 2.  $25 \div 5$
- $3. 3^3$
- 4. A centipede has how many legs?
- 5.  $(5+4)^2$
- 6. If x 4 = 4, then x = 2
- 7. Forty nickels to equal to how many dollars.

- $8. \quad 3^2 \dots 24$
- 9. 1 meter ... 100 meter
- **10**. 9(8) ... 8(5 + 4)

- 1. 4 × 4
- 2. Five boxes of pencils with ten pencils per box is equal to how many pencils.
- 3. If  $18 \div 3 = n$ , then n =
- 4.  $70 \times 70$
- 5. The product of 6 and 3.
- 6. If  $2^2 + x = 9$ , then x =
- 7. Identify the pattern: 1, 4, 9, 16
- 3.  $\frac{15}{3}$
- 9. Five tricycles have how many wheels?
- 10. Five squared plus ten

- 1. 8 × 4
- $2.65 \times 65$
- 10(12)
- Three centuries are equal to how many years?
- Five squared
- 6.  $7 \div 4 \times 2$
- 7.  $45 \div 3$

For questions 8-10, use a=4, b=9, and c=3

- ac
- 10. 5b

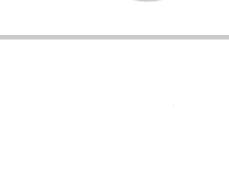




- 1. 7<sup>2</sup>
- 2. 10-5+3
- $3. \quad 0.6 + 0.3$
- 4. Six weeks is equal to how many days?
- 5.  $18 6 \times 2$
- 6. What time is shown on the clock?
- 7.  $12 \div 2 \div 2$

Use <, >, or = to complete questions 8-10

- 8. 0.55 ... 0.65
- 9. 0.083 ... 0.81
- **10**. 0.6 ... 0.60





1. 
$$3(4-1+2)$$

- 2. Order from least to greatest: 5.2, 0.052, 0.52
- $3. 2^3$
- 4.  $\frac{20}{4}$
- 5. Identify the greater number: 0.0853 or 0.09
- 6. Circle the answer that is equivalent to  $4^3$ :
- 7. The product of 8 and 11.

- 8. 4.03 ... 4.01
- 9. 0.0034 ... 0.03
- **10**. 10.6 ... 10.600



12	$4 \times 4 \times 4$
$3 \times 3 \times 3$	43

- 1. 0.8 0.5
- 2. Identify the greatest number: 0.55, 0.50, 0.505
- 3. Identify the number with the least value: 0.092, 0.029, 0.043
- **4.** If a = 9, the  $a^2 =$
- 5. If 3x = 27, then x =
- 6. Three feet equal how many inches?
- 7.  $3 + 9 \times 2$
- 8. Order these numbers from least to greatest: 0.08, 8.0, 0.8
- **9.** A field goal is worth three points. The Bears have kicked four field goals. How many points is this altogether?
- 10.  $3 \times 2 \times 4$

- **1.** If a + 8 = 16, then a =
- 2. Identify the greatest number: 8.20, 8.02, 8.022
- $3. \quad 0.3 + 0.2 + 0.1$

For questions 4-7, round to the ones place.

- 4. 26.26
- *5*. 2.81
- 6. 0.018
- 7. 15.45

For questions 8-10, use a=2, b=3, and c=8

- 8. ab(c-a)
- 9. The sum of a and b

10. 
$$\left(\frac{c}{a}\right)$$



1. 
$$0.8 + 0.6$$

2. If 
$$\frac{x}{3} = 6$$
, then  $x =$ 

- Identify the number with the least value: 0.051, 3.82, 0.05
- Ten weeks is equal to how many days?

5. 
$$10 - 6 + 2$$

6. 
$$3^2 + 2$$

Eight dogs have how many legs in all?

For questions 8-10, round to the tenths place.

- 0.787
- 0.506
- 10. 2.8







- **1**. 55 × 55
- 2.8 3 + 4
- 3. Sixteen quarters is equal to how many dollars?
- **4**. 6(8)
- 5.  $\frac{28}{4}$
- 6. If g 4 = 18, then g =
- 7. If a = 3, then  $2^a =$

For questions 8-10, estimate the answer by rounding to the ones place and then applying the correct operation. Number 8 is done for you.

- 8. 12.2 + 4.9 = 12 + 5 = 17
- 9. 18.9 3.6
- 10.  $6.9 \times 8.2$

- $4^2$
- The product of 6 and 3.
- Circle the answer that is equal to  $3 \times 3 \times 3 \times 3$ :
- 4. 5(3+5)

Use <, >, or=to complete questions 5-7

- *5.* 4.1 ... 6
- *6.* 2.08 ... 2.080
- 7. 5.03 ... 5.4

For questions 8-10, round to the tenths place.

- 8.842
- 481.56
- 0.0083





















4 <sup>3</sup>	3 <sup>4</sup>
3 <sup>3</sup>	12

- 1. Ten cats have how many legs in all?
- 2.  $(8-3\times2)^2$
- 3.  $0.84 \times 10$
- 4.  $8.23 \times 10^2$
- 5.  $25 \times 0.1$
- 6. If a = 5 and b = 4, then ab =
- 7. If a = 2 and b = 3, then aba =

Use <, >, or = to complete questions 8-10.

- 8. 4.03 ... 4.01
- 9. 5.62 ... 8
- **10**. 6 ... 5

- **1**. 2(5)(3)
- $2. \quad 0.04 \times 10^2$
- 3. Identify the greatest number: 4.8, 4.08, 4.008
- 4. Identify the number with the least value: 2.2, 0.02, 0.2
- 5.  $4.68 \times 0.1$

Use <, >, or = to complete questions 6 and 7.

- 6.  $3^2 \dots 4^2$
- 7.  $3^2 \dots 2^3$

For questions 8-10, round to the ones place.

- 8. 4.081
- 9. 20.65
- **10**. 4,348





- 1.  $75 \times 75$
- 2. |-11|
- 3.  $3.26 \times 10$
- 4.  $4.28 \times 0.1$
- 5. If a = 2 and b = 7, then  $b^a =$
- 6. 8-2+4
- 7.  $10^3$

Use <, >, or = to complete questions 8-10.

- 8. 14.2 ... 14.01
- 9. 0.043 ... 0.5
- 10. 4<sup>2</sup> ... 2<sup>4</sup>

- **1**. 2(4)(3)
- 2. Identify the pattern: 1, 3, 6, 10
- 3. Identify the range of the following numbers: 8, 2, 10, 4, 4, 6
- 4.  $\frac{3+2+1}{3}$
- 5. What is seven and twenty-six one hundredths rounded to the nearest whole number?
- 6. Eight birds have how many wings in all?
- 7. Write 0.98989898 ... using bar notation.
- 8. 5 + 1.2
- 9.  $0.403 \times 1,000$
- **10**. Three thousand people plus two thousand people equal how many people?

- **1.** Identify the greatest number: 0.002, 0.0021, 0.019
- 2. Identify the range of the following numbers: 4, 3, 3, 15, 28

3. 
$$\frac{5-2+5}{2}$$

- 4. Two and a half hours later than 3: 30 is what time?
- 5. What is the mean of 2, 7, and 9?
- 6. If a = 4, then  $a^2 =$
- 7. The quotient of 35 divided by 5?

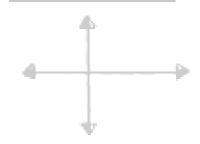
- 8.  $3.2 \times 0^2 \dots 0.32 \times 10^3$
- 9. 0.04 ... 0.301
- 10. 3 dozen donuts ... 30 donuts

- 1. Identify the range of the following numbers: 100, 212, 215, 308, 303, 600
- 2. Write 0.43333 ... using bar notation.
- 3. Identify the pattern: 0.5, 1, 1.5
- 4. What is the mean of two and twelve?
- **5.** Identify the mode of the following numbers: 1, 1, 1, 2, 2, 3, 3, 3, 3, 3, 4, 7
- 6. 95 5
- 7. The product of four and eight.
- 8. True or False:  $3^2 = 2^3$
- 9. Is two dozen evenly divisible by three?
- 10. Two hours later than 11:30.

- **1**. |-50|
- 2. Identify the mode of the following numbers: 2, 5, 6, 6, 11, 19, 20
- 3. What is the range of the numbers in problem 2?
- 4.  $\frac{5+4+1}{3+1+1}$
- 5. One day less than three weeks is how many days?
- 6. Round 18.94 to the nearest whole number.
- 7. Identify the number with the least value: 0.002, 0.0019, 0.0004
- $2 \times 0.4$
- 9. Two snakes plus seven snakes equal how many snakes?
- 10. Write twenty-three thousandths in decimal form.

- **1.** Two centuries and 6 decades equal how many years?
- 2. Write as a fraction the probability of rolling a 3 on a six-sided di.
- **3.** Three hours later than 2: 30 is what time?
- 4. Identify the value that shows how much a seventh-grade student might weigh:
- 5. Identify the greater value: 54 inches or 5 feet
- 6. If 5x + 1 = 21, then x =
- 7.  $\frac{1}{2} \times 18$
- 8. True or False: 0.054 > 0.1
- 9. Are these lines parallel or perpendicular?
- 10. If you have read half of an 80-page book, how many pages have you read?

500 <i>kg</i>	50 <i>kg</i>
5 <i>kg</i>	100 g



1.  $42.6 \times 100$ 

2. If 
$$8 + q = 12$$
, then  $q =$ 

- 3.  $47 \times 100$
- **4.** Is 21.49 closer to 21 or 22?
- 5. In 5 years, Lindsey will be a teenager. How old is she now?

6. If 
$$\frac{n}{100} = 0.2$$
, then  $n =$ 

- 7. Two quarters is equal to how many nickels?
- 8. If 1 gallon has 4 quarts, how many quarts do 2 gallons have?
- 9. Identify the pattern: 1, 4, 9, 16
- **10.** What is the probability of drawing a black marble from the bag?



- 1.  $42.6 \div 100$
- 2. If 10 n = 4, then n =
- 3. Which number is the product:  $3 \times 6 = 18$ ?
- **4.** If  $n \times 1 = 5 \times 2$ , then n =
- 5. How many days equal 48 hours?
- 6. Which digit in the number 95,184 is in the thousands place?
- 7.  $2^3 3^1$
- 8. Which number is the divisor:  $5036 \div 4 = 1259$
- 9. If 5 circles weigh 10 pounds, how much does each square weigh?
- 10. Name a prime number between 12 and 16.



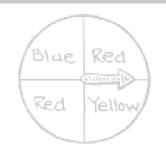


- 2. Write twenty-six hundredths as a decimal.
- 3. Five triangles have how many sides in all?



- *5.* |-25|
- 6.  $\sqrt{16}$
- 7. Identify the greatest number: 0.9, 0.901, 0.899
- 8. Five minutes less than an hour is how many minutes?
- 9. Round 1,894 to the nearest hundred.





1 out of 4	1 out of 3
2 out of 4	2 out of 3



1	2
6	3
3	1
2	$\frac{\overline{2}}{2}$



- $2. 10^2$
- 3. Six dollars equal how many pennies?
- **4.** Name the shape?
- 5.  $\sqrt{49}$
- 6. Four motorcycles have how many wheels in all?
- 7.  $4.78 \times 100^2$
- 0.4 + 0.3
- 9.  $0.4 \times 0.3$
- 10. The difference between 11 and 3.

1,000 <i>lbs</i> .	1,000 g
1,000 tons	



- 1. Is 372 evenly divisible by 2?
- 2. Name the shape.
- $3 \times 3 \times 3 \times 3$
- **4.** 23 + 32
- *5*. 8<sup>2</sup>
- 6.  $\sqrt{36}$
- 7. Is 249 evenly divisible by 3?
- 8. If x = 2 and y = 5, then xy = 1
- 9. A millipede has how many legs?
- 10.  $0.004 \times 10^2$



- 2.  $\sqrt{100}$
- 3. A century has how many years?
- 4. 0.4 + 0.6
- *5.* 0.4(0.6)
- 6. Identify the greater value: 0.5 or  $0.\overline{5}$
- 7. Name the shape.
- 8. Is 2,112 evenly divisible by 3?
- 9. If a = 8 and b = 2, then  $\frac{a}{b} =$
- **10.** A pentagon has how many sides?





- **1.** Is 435 evenly divisible by 5?
- 2. Which is greater, 2 feet or 2 meters?
- 3. Twelve cars have how many wheels in all?
- 4. Two feet are equal to how many inches?
- $5. \quad 7(0.4+0.5)$
- 6.  $968 \times 0.01$
- 7. (0.8)(0.4)
- 8. Are the two lines parallel?
- 9.  $0 \times 3{,}133$
- **10.** Is this figure regular or not regular?





- 1.  $0.0432 \times 10^3$
- $2. 10^2 \times 4.1$
- 3. Write  $\frac{1}{2}$  as a decimal.
- 4. If  $6,734 = 6.734 \times 10^n$ , then n =
- 5. If eleven-marbles are in each bag, how many marbles are in 5 bags?
- 6. Name the shape.
- 7. Are these lines parallel?

- 8. 1.78 ... 1.774
- 9. 1.009 ... 1.1
- 10.  $10^2 \dots 1,000$







- Eight squared
- 3. The mean of 3, 5, and 10.
- 4.  $\sqrt{25}$
- 5. Write  $\frac{1}{4}$  as a decimal.

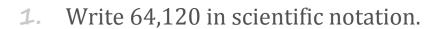
Use <, >, or=to complete questions 6-8

- *6.* 8.2 ... 8.19
- 7. 0.006 ... 0.08
- 8.  $3^2 \dots 2 \times 2 \times 2$

For questions 9 and 10, round to the nearest tenths-place

- 9. 68.34
- 10. 6.834





2. If 
$$a = 6$$
 and  $b = 8$ , then  $ab = 8$ 

4. 
$$5+6\times 2$$

- Nine squared
- The square root of thirty-six
- Identify the value that is equivalent to  $0.432 \times 0.14$ :
- Name the shape.

For questions 9 and 10, round to the nearest hundredths-place.

- 0.593
- 0.0032











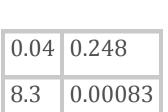
0.06	6.048
0.06048	43.2



- Identify the value that is equal to  $0.62 \times 0.4$ :
- $75 \times 75$
- Write 5,823 in scientific notation.
- The mean of 2, 10, and 9.
- $6. \quad 0.5 + 0.2$
- A pentomino has how many squares?

- 8. 1.49 ... 1.483
- $3.43 \times 10^4 \dots 3.43 \times 10^5$
- **10**. 2.900 ... 2.9

0.04	0.248
8.3	0.00083





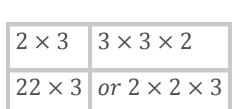
- 2. Is 492 evenly divisible by 9?
- 3. Identify the expression that is equal to  $2^2 \times 3$ :

**4.** If 
$$2^3 \times n = 32$$
, then  $n =$ 

5. 
$$\sqrt{49}$$

- 6.  $0.0836 \times 10^3$
- 7. Twenty dimes equal how many dollars?
- 8. Identify the pattern: 1, 2, 4, 7
- $9. \quad 0.02 + 0.03$

10. 
$$16 \times \frac{1}{2}$$



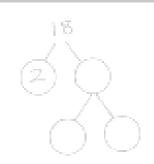


- 2. Is 107 evenly divisible by 9?
- 3. Twelve people have how many ears in all.
- $4. 10^2$

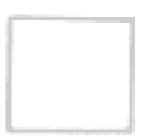


6. If 
$$a = 0.5$$
 and  $b = 8$ , then  $ab = 8$ 

- 7.  $\sqrt{16}$
- 8. Write eight thousand four hundred thirty-six in scientific notation.
- *9.* Is twenty-seven prime or composite?
- 10. Name the shape.



0.12	0.0138
0.128	0.00463



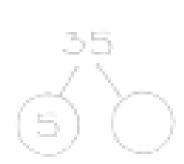


2. If 
$$2 \times n \times 5 = 70$$
, then  $x =$ 

5. True or False: 
$$\frac{1}{4} = 0.20$$

9. 
$$3 \times 2^2 \dots 2 \times 3^2$$

**10.** 4,183 ... 
$$4.183 \times 10^3$$



- **1.** If a = 8 and b = 2, then a/b =
- 2. The mean of 1, 12, and 14
- 3. Two centuries are equal to how many years?
- **4.** Identify the value that is equivalent to 0.414141414 ...:
- *5.* Five squared
- 6. If  $4{,}132 = 4.132 \times 10^a$ , then a =
- 7. Is 7 prime or composite?
- 8. Identify the pattern: 2, 12, 22, 32
- 9. True or False: Prime factors of 25 are 5 and 2?
- **10.** What is one hundred divided by ten?

$0.4\overline{1}$	$0.41\overline{40}$
$0.\overline{41}$	or 0. 14



1. If 
$$\frac{4}{16} = \frac{x}{4}$$
, then  $x = \frac{x}{4}$ 



3. 
$$\frac{52}{50} = x\%$$

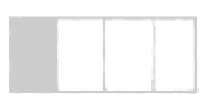


5. If 
$$\frac{4}{8} = \frac{x}{2}$$
, then  $x = \frac{x}{2}$ 

6. 
$$\frac{90}{100} = \chi\%$$

7. If 
$$24 = 2 \times 2 \times 2 \times n$$
, then  $n =$ 

- 8. In the number 54,631, what digit is in the ten thousands place?
- 9. Name the shape.
- 10. What is thirty plus thirty?







$$2. \quad \frac{41}{100} = x\%$$

$$4.44.68 + 10$$

5. 
$$\sqrt{121}$$

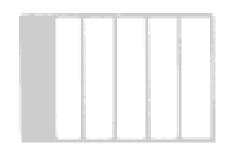
6. If 
$$a = 8$$
 and  $b = 4$ , then  $ab =$ 

7. 
$$2 \times 3 \times 5$$

8. 
$$0 \times 5,123$$

9. 
$$\frac{8}{10} = x\%$$

**10.** If 
$$\frac{1}{3} = \frac{m}{9}$$
, then  $m =$ 





- Write 76% as a decimal.
- Identify the pattern: 1, 4, 7, 10

4. 
$$0.5 + 0.42$$

$$5. 9^2$$



7. If 
$$\frac{1}{7} = \frac{3}{n}$$
, then  $n =$ 

$$8. \quad 1.2 + 2.2$$

- The sum of 8 and 9.
- Name the shape.

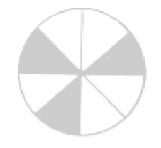














- 1.  $6.2 \times 10$
- 2. If an ant has six legs, then how many legs do eight ants have in all?
- 3. List the factors of 12.
- 4. 5(8+2)
- 5. If n 8 = 2, then n =
- 6.  $5^2$
- 7. If x = 2 and y = 6, then xy =
- $8. \pi$
- $9. \quad 0 \div 11$
- 10. Round eighteen and ninety-four hundredths to the nearest whole number.

1. 
$$4^2 =$$

2. If 
$$36 = n^2$$
, then  $n =$ 

**3.** Three hours from the time shown would be?

- *5.* What are the first three multiples of 4?
- 6. List the factors of 20.

7. 
$$8x = 96$$

$$8. \pi$$

9. If 
$$n \div 4 = 6$$
, then  $n =$ 

**10.** If 
$$5(n-2) = 35$$
, then  $n =$ 



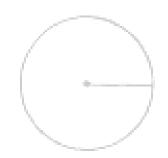
- 1. 9×9
- 2. Round 0.789 to the nearest tenth.
- 3. Use exponents to write  $4 \times 4 \times 4 \times 4$ .
- 4.  $2 + 36 \div 6$
- 5.  $12d \div 10$
- 6.  $\pi$
- 7. If  $\frac{n}{3} = 2$ , then n =
- 8. If n = 2, then 8n =

Use <, >, or = to complete questions 9 and 10.

- 9. 1.34 ... 1.308
- 10. 9<sup>2</sup> ... 3<sup>4</sup>







1. If 
$$\frac{3}{5} = \frac{x}{50}$$
, then  $x = \frac{x}{50}$ 

2. List the first three multiples of 5.

3. 
$$\frac{45}{100} = x \%$$

**4.** If 
$$n^2 = 64$$
, then  $n =$ 

*5.* What are the factors of 18?

6. 
$$\frac{12}{4}$$

7. 
$$2^2 \times 3$$

- 8. If a = 1, b = 2, and c = 3, then abc = 1
- 9. Seventy-three out of 100 is what percent?
- 10. Is this a regular polygon?



$$2. 4(2+3)$$

$$3. \quad 0 \times 5,842$$

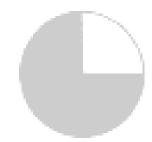
- $4. \pi$
- *5.* List the first three multiples of 10.
- *6.* Is 13 prime or composite?
- 7. True or False:  $16 = 3^2 \times 2$

8. If 
$$16\% = \frac{x}{100}$$
, then  $x = \frac{x}{100}$ 

- 9. Is 4,032 evenly divisible by 3?
- 10. What fraction does the shaded portion of the circle represent?

3 mm	3 cm
3 m	3 km





**1.** Eight out of 100 is equal to what percent?

$$2. \quad \frac{18}{100} = x \%$$

- 3. What fraction does the shaded portion of the box represent?
- 4.  $65 \times 65$
- *5.* 10 × 8.4
- 6. Simplify:  $\frac{18}{24}$
- 7. List the first three multiples of 9.
- 8. List the Factors of 6.
- 9. Is 432 evenly divisible by 9?
- 10. True or False:  $3^2 \times 7 = 63$



1. 
$$\sqrt{100}$$

2. 
$$\frac{20}{100} = x \%$$

3. If 
$$65\% = \frac{x}{100}$$
, then  $x =$ 

- 4. Simplify:  $\frac{8}{32}$
- *5.* What are the factors of 15?
- *6.* List the first three multiples of 7.
- 7. Is 10, 032 evenly divisible by 3?

- 8.  $10^2 \dots \frac{1,000}{10}$
- 9. 0.042 ... 0.05
- **10**. 32% ... 32:100

- **1.** $Simplify: <math>\frac{5}{15}$
- 2. Identify the greater number: 0.8 or 0.0763

3. If 
$$a = 12$$
 and  $b = 100$ , then  $\frac{a}{b} = x \%$ 

- 4. Is 509 evenly divisible by 4?
- 5. List the factors of 14.
- 6. List the first three multiples of 2.
- 7. Identify the value that shows the length of this ticket:

- 8. 38% ... 0.33
- 9.  $3^2 \dots 2^4$

10. 
$$\frac{4}{16} \dots \frac{1}{4}$$



4 km	4m
4cm	4 mm



2. If 
$$\frac{12}{100} = \frac{x}{50}$$
, then  $x =$ 

4. 
$$0:100 = x \%$$

5. 
$$\frac{14}{2}$$

6. 
$$\sqrt{36}$$

$$7. 4^2$$

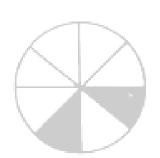
- 8. Identify the value that shows the length of this pencil:
- 9. Four feet is equal to how many inches?
- 10. Write twenty-three thousandths as a decimal.

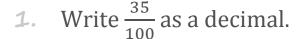


5 <i>cm</i>	25 cm
50 cm	75 <i>cm</i>

- 1. Write 98% as a decimal.
- 2. Identify the greater value: 65% or  $\frac{7}{10}$
- $5.234 \times 10$
- 4. Round 8.546 to the nearest tenth.
- $5. 2^3$
- $6. 10\pi$
- 7. If  $\frac{6}{18} = \frac{x}{6}$ , then  $x = \frac{x}{6}$
- 8. Thirty-six eggs are equal to how many dozen eggs?
- 9. Estimate:  $8.2 \div 4.9$
- **10.** What fraction does the shaded portion of the circle represent?







2. 
$$\frac{3}{4} = x \%$$

3. If 
$$\frac{1}{2} = \frac{s}{8}$$
, then  $s =$ 

- 4. Identify the greater value: 0.049 or 0.08
- 5. Round 15.402 to the nearest tenth.

6. If 
$$\frac{1}{3} = \frac{t}{60}$$
, then  $t =$ 

- 7. Write 2: 7 as a fraction.
- 8. If a = 100 and b = 0.06, then ab =

$$9. \quad 0 \div 38$$

10. Name the shape.



- **1.** Write 0.12 as a percent.
- 2. Is 19 a prime number?

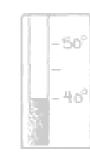
3. 
$$\frac{1}{4} = x \%$$

- 4. List the first three multiples of 5.
- 5. Round 14.9631 to the nearest tenth.
- 6. How many times must a three-minute timer be flipped to measure a half-hour?
- 7. Is 817 evenly divisible by 4?
- 8. Identify the greater value:  $4^2$  or 8(3 + 4)
- 9. If  $41,232 = 4.1232 \times 10^m$ , then m =
- 10. Is twenty-four prime or composite?

# Math Minutes: Middle Grade Minute 62

- Which number is in the hundredths place? 13,328.96
- Circle the answer that is equal to  $v^6$ :
- What is the temperature?
- $\sqrt{25}$
- 5. If 100 = 10k, then k =
- $3.38 \times 100$
- What is the sum of two hundred and four hundred?
- What is the smallest two-digit prime number?
- (2)(3)(4)

v + v + v + v + v + v	6v
$v^3 + v^3$	$v \times v \times v \times v \times v \times v$



- 1. Identify the greater number:  $\frac{3}{4}$  or 0.5
- 2. If a = 8, then  $a^2 =$
- 3. Which number is the divisor?  $9252 \div 18 = 514$
- 4. 6(6+2) =
- $5. \quad \sqrt{10 \times 10}$
- 6.  $\frac{1}{4} + \frac{2}{4}$
- 7. What is the total cost of an item priced \$4.95 if there is 5% sales tax?

- 8. 0.0083 ... 0.01
- 9. 23 ... 5 + 3
- 10. 1,000,000 ... One million

# Math Minutes: Middle Grade Minute 64



2. If 
$$22.009 = 22 + \frac{x}{1000}$$
, then  $x =$ 

- List the factor of 8.
- 4. 12(3)

5. 
$$\frac{1}{8} + \frac{2}{8}$$

- Identify the measurement that shows the greatest length:
- Is 312 evenly divisible by 2?

8. If 
$$ab = 10$$
 and  $b = 2$ , then  $a =$ 

 $9.1^3$ 

10. 
$$4 + 2.5$$





- 2. The Least Common Denominator of four and five.
- 3. Reduce:  $\frac{5}{40}$

4. 
$$\frac{4}{10} = x \%$$

- **5.** If ac = 20 and a = 10, then c =
- 6.  $\frac{3}{7} \frac{1}{7}$
- 7.  $\sqrt{5 \times 5}$
- 8. List the factors of 25.
- $9. \quad 0.40 + 0.05$
- **10**. If 10w = 50, then w =

# Math Minutes: Middle Grade Minute 66



$$2. 5 + 2(4+1)$$

3. If 
$$5\frac{1}{2} = \frac{x}{2}$$
, then  $x = \frac{x}{2}$ 

- Arithmetic Sequence or Geometric Sequence: 1, 2, 4, 8...
- 5. Write  $\frac{1}{3}$  as a decimal.
- Identify the greater value:  $\frac{2}{3}$  or  $\frac{7}{11}$
- What is the area of the rectangle?



- Which value is equal to 5.128888 ...:
- Round 1,286 to the nearest hundred.



5. 128	5. 12
$5.12\overline{88}$	$5.12\overline{8}$

1. 
$$0.4 + 0.7 + 0.3$$

- 2. Is 80,100 evenly divisible by 3?
- 3. Eight weeks = x days

4. If 
$$3\frac{2}{3} = \frac{x}{3}$$
, then  $x = \frac{x}{3}$ 

5. Write  $\frac{1}{4}$  as a decimal.



6. Write eight thousand one hundred twenty-three in scientific notation.

7. If 
$$b = 10$$
 and  $h = 2$ , then  $bh = 10$ 

- 8. What is the area of the rectangle?
- 9. What is the perimeter of the rectangle shown in question 8?
- **10.** What is the diameter of the circle?



65.000

#### linute 68

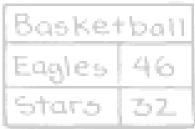
- How many points ahead are the eagles?
- Identify the pattern: 3, 4.5, 6, 7.5
- What odd number does x equal?  $11 < x \le 13$
- 4.  $2^3 \times 3$

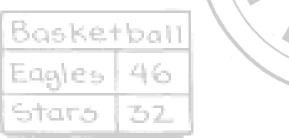


What is the perimeter of the rectangle shown in question 5?

7. 
$$10.5 + \frac{1}{2}$$

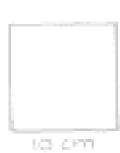
- If  $w \times 100 = 1,000$ , then w =
- The absolute value of (-7).
- A negative number times a negative number is a positive or negative?







- **1.** If l = 8, w = 2, and h = 1, then lwh = 1
- 2. Which is the dividend?  $42 \div 6 = 8$
- $3. \quad 3(2+3+1)$
- 4.  $0.244 \times 10$
- 5. True or False: 1 meter = 100 centimeters
- 6. What shape is a stop sign?
- 7. If s = 3, then  $4s^2$
- 8. If 10w = 50, then w =
- 9. What is the perimeter of the square?
- *10.* What is the area of the square shown in question 9?





- 3
- 3. Write  $\frac{3}{4}$  as a decimal.

4. 
$$0.2 + 0.25$$

5. If 
$$a = 3$$
 and  $b = 9$ , then  $\frac{b}{a} =$ 

6. 
$$24 \times \frac{1}{2} =$$

7. 
$$\left(\frac{1}{7}\right)\left(\frac{1}{8}\right)$$

- 8. What is the perimeter of the rectangle?
- 9. What is the area of the rectangle shown in question 8?
- 10. Area is always measured in what kind of units?





2. If 
$$w = 2$$
, then  $5w^2$ 

3. 
$$\frac{1}{2(4+2)}$$

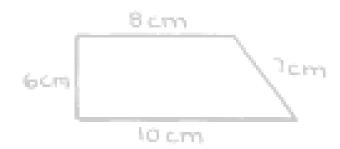
4. 
$$\frac{1}{2} \times \frac{1}{7}$$

- *5.* What is the perimeter of the shape?
- 6. The product of 6 and 7.

7. 
$$4 + 3 \times 2$$

- 8. What is the reciprocal of  $\frac{4}{9}$ ?
- 9. Write  $\frac{13}{4}$  as a mixed number.
- 10. Write  $\frac{1}{4}$  as a decimal.



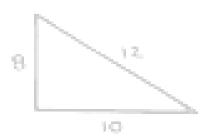




2. If 
$$a = \frac{1}{2}$$
 and  $b = \frac{1}{3}$ , then  $ab = \frac{1}{3}$ 

3. 
$$\frac{1}{2(4\times2)} =$$

- **4.** What is the reciprocal of  $\frac{7}{5}$ ?
- 5. Reduce:  $\frac{12}{36}$
- 6. Write  $5\frac{1}{4}$  as an improper fraction.
- 7. What is the perimeter of the triangle?
- 8. Write  $\frac{1}{3}$  as a decimal.
- 9. What is the area of a box that is eight by four by two?
- 10. Arithmetic Sequence or Geometric Sequence: 10, 13, 16, 19...





2. True or False: 
$$\frac{8}{12} = \frac{2}{3}$$

3. If 
$$6c = 42$$
, then  $c =$ 

4. 
$$(-8)(-4)$$

$$5. \quad 5 - (-8)$$

6. If 
$$-4a = -20$$
, then  $a = -20$ 

- What is the area of the rectangle?
- What is the perimeter of the rectangle shown in question 8?
- The square root of 36.

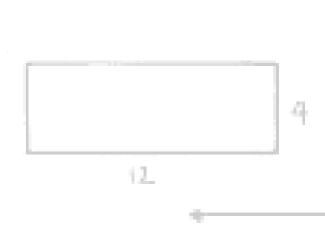








- 1. Simplify:  $\frac{3}{6}$
- 2. If (-6)(-4) = b, then b =
- 3. If l = 2, w = 3, and h = 4, then lwh =
- 4. What is the area of this shape?
- 5. Are these lines perpendicular?
- 6. Two hours equal how many minutes?
- 7. Round 18.24 to the ones place.
- 8. 12 (-4)
- 9. (-4) (-5)
- **10**. If x 2 = 3, then x =



1. 
$$\frac{1}{2(16)}$$

2. Round 0.36444 ... to the nearest thousandths place.

3. If 
$$x + 4 = 6$$
, then  $x =$ 

4. How many degrees is angle x?

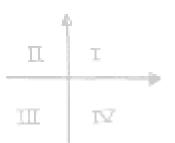


6. If 
$$-8x = 24$$
, then  $x =$ 

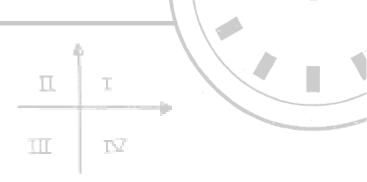
- 7. Draw the line(s) of symmetry for the letter H.
- $3. 7^2$
- *9.* The square root of sixteen.

**10.** True or False: 
$$5\% = 0.5$$





- **1.** What quadrant is the point (-4, -7) in?
- 2. A triangle has how many degrees?
- 3. Define: perpendicular lines.
- 4. Reduce:  $\frac{9}{21}$
- 5. What kind of angle is this?
- 6. 4-(-3)
- 7. Three hours later than nine o' clock is?
- 8. If a = 10, then  $a^2 =$
- $9. 13 \times 3$
- 10. List the factors of 15



Acute	Obtuse
Right	



3. If 
$$b^2 = 81$$
, then  $b =$ 



4. True or False: Squares and square roots are the same thing?

5. 
$$\frac{12}{2}$$

- 8. List the factors of 18.
- 9. Perpendicular lines never intersect. True or False

10. 
$$10(4+2)-10$$



- 2. What is the reciprocal of  $\frac{8}{11}$ ?
- $3. \quad \left(\frac{1}{4}\right)\left(\frac{1}{3}\right)$

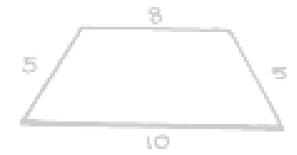


5. If 
$$a = 25$$
, the  $\sqrt{a} =$ 

- 6. What is the perimeter of this shape?
- 7. What is the shape shown in question 6 called?
- 8. What is the mean of two, five, and eleven?
- 9. What is the product of four and nine?

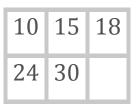


$8 \times n$	8n
8(n)	$\frac{8}{n}$

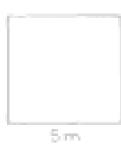




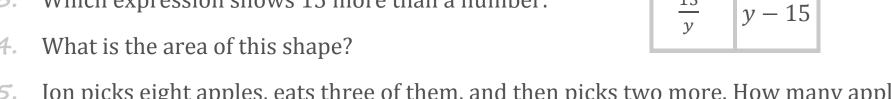
- 2. Identify which of these numbers is a multiple of 5 and 6:
- **3**. Round 15,132 to the nearest hundredth.
- 4. Identify the fraction that represents the least value:
- Which number is the divisor:  $76,752 \div 246 = 312$
- 6. If 30 x = 15, then x =
- 7. What is the area of the square?
- 8. What is the perimeter of the square shown in question 7?
- 9. -8 + (-6)
- **10**. (-8)(-6)



1 3



- How many hours did Martha probably slept last night: 24, 30, 19, or 8?
- Four quarters and three dimes is how much money?
- Which expression shows 15 more than a number:



- Jon picks eight apples, eats three of them, and then picks two more. How many apples does he have now?
- Which value shows the height of this drawing:
- If 10 + x = 30, then x =
- Which is the numerator:  $\frac{5}{11}$
- 9. (-7)(-6)10. -5 + (-6)

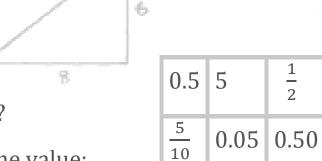


y + 15 | 15y

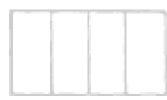
- 1.  $7 \times 8 \times 5 \times 0 \times 9$
- 2. What is the area of the shape?
- 3. \$1 **-** \$0.56



5. Identify the numbers that have the same value:

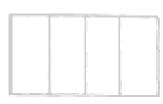


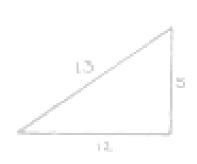
- 6. Three hours and seventy-five minutes is the same as four hours and how many minutes?
- 7. Shade 25% of this box.
- 8. How are two lines that are parallel to each other different from any other two lines?
- 9. Describe lines that are perpendicular to each other.
- **10**. 0.5(10)

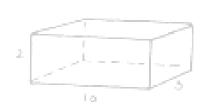


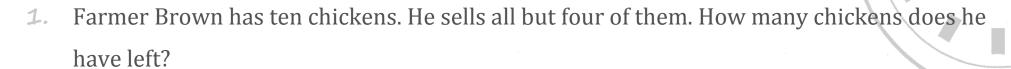


- 1.  $27 \times 8 \times 15 \times 0 \times 11$
- 2. What is the area of the triangle?
- 3. What is the perimeter of the triangle shown in question 2?
- 4. Multiply 2.46 by 100.
- 5. Identify the pattern: \$1.39, \$1.29, \$1.19
- 6. Scott made six out of ten baskets. What percent is this?
- 7. Three weeks and two-days equal how many days?
- 8. What is the volume of this shape?
- 9. Which is longer, 10% of a mile or 100% of a meter?
- 10. Diagram 75% of this box.





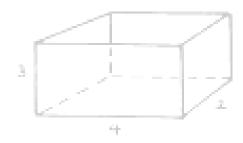




- 2.  $3 + 4 \times 2$
- **3.** Twelve quarters is equal to how many dollars?
- 4. 10% of 60
- *5*. 8<sup>2</sup>



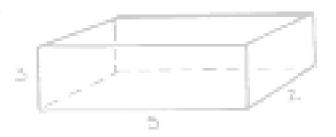
- 7. What is the area of a rectangle that is *eight inches* by *five inches*?
- 8. What is the volume of this shape?
- 9. The absolute value of -12.
- **10.** How many lines of symmetry does the letter **V** have?



- 1. In the number 923, how many tens are there?
- 2.  $2 \times 8 4$
- 3. What is the volume of the shape?
- 4. If a = 64, then  $\sqrt{a}$



- 6. Round 173 to the nearest ten.
- 7. What is the perimeter of a triangle with sides of *eight cm*, *six cm*, and *one cm*?
- 8. Find the area of a 5 *meter* square.
- 9. Identify the product:  $8 \times 6 = 48$
- 10. How many sides does a pentagon have total?



- 1. What part of an hour is thirty minutes?
- 2. Are railroad tracks parallel or perpendicular?
- 3. Joe earns twenty-five cents each time he walks the dog. How much can he make in a week if he walks the dog twice each day?
- $4.8\times4$
- 5. A rectangle has how many sides total? How many angles?
- 6. One dollar minus eighty-five cents?
- 7. One ton = x pounds
- 8.  $14 \div 7$
- 9.  $\sqrt{81}$
- 10.  $0 \times 1,000$

- 1. Round \$26.59 to the nearest dollar.
- 2. Are the seat and the back of this chair parallel or perpendicular?
- 3. A triangle has how many vertices?
- 4. There are how many feet in one yard?
- 5. True or False: All the radii in a circle are the same length?
- 6. If 7(2 + n) = 21, then n =
- 7. Is 46 evenly divisible by 2?
- 8. There are how many hours in a day?
- 9. 8 3 + 3 =







- $2. 2 \times 100 \times 3$
- 3. A cube has how many faces total?
- 4. True or False: A shape always has one line of symmetry?
- 5. What does the prefix kilo mean?
- 6. Write  $13 \times 13 \times 13$  using exponents.
- 7. Two radii equal one diameter. True or False
- $8. \quad (8+2) (5+2)$
- 9. A letter used to represent an unknown number is called?
- **10.** The distance around a polygon is called?

- **1**. Round \$46.28 to the nearest \$10.
- 2. What number is 60,000 + 1,000 + 400 + 8?
- 3. Two tons' equals how many pounds?
- 4. Are lines that never intersect parallel or perpendicular?
- 5. One pound is equal to how many ounces?
- 6. Write the first three multiple of eight.
- 7. Is a house measured in meters or kilometers?
- 8. Estimate the sum for 2.9 + 3.2.
- 9. What fraction of an hour is fifteen minutes?
- **10**. Identify the prime numbers: 10, 11, 12, 14, 15



- 2. What number is 5,000 + 300 + 40 + 2?
- 3. What is the reciprocal of  $\frac{4}{11}$ ?
- 4. Write  $5\frac{1}{2}$  as an improper fraction.
- $5. 10^3$
- 6. There are how many months in a year?
- 7. What is the mean of 2, 4, and 6?
- 8. A bus travels at 50 miles per hour for 3 hours. How many miles did it go?
- 9. 8-2+4
- 10. 0 ÷ 11



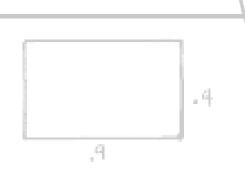
- **1.** What is the area of the rectangle?
- 2. GCF stands for what mathematical phrase?
- 3. What shape is this?
- 4. True or False, one is a factor of every number.

5. If 
$$7 \times n = 42$$
, then  $n =$ 

- 6. What is 3 more than  $5 \times 3$ ?
- 7. Add four to the product of two and ten.

- 8. Two tons ... 4,132 pounds
- 9. One kilometer ... One meter

**10.** 
$$\frac{1}{2}(10)$$
 ...  $2(2.5)$ 





# Math Minutes: Middle Grade Minute 91

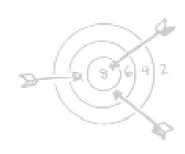
- What percentage of people like Station A?
- Reduce:  $\frac{10}{35}$
- 92
- **4.** If  $b^2 = 16$ , then b =
- 5. 10(4+3)
- 6. If  $10\% = \frac{x}{100}$ , then  $x = \frac{x}{100}$
- My book has 120 pages. If I have read half of it, how many pages have I read?
- Which digit is in the thousands place: 998,104
- 0.003 + 0.0005
- What is the product of six and eight?



- **1.** What is the Least Common Denominator of  $\frac{1}{3}$  and  $\frac{1}{5}$ ?
- 2. One gallon equals how many quarts?
- 3. List the factors of 21.
- 4.  $\frac{5}{9} + \frac{1}{9}$
- 5. If you flip a coin, what is the probability of getting tails?
- 6. If you have eight boxes of crayons and ten crayons per box, how many crayons are there in all?
- 7. What percent does the shaded portion of the box represent?
- 8. True or False, If a = 4 and b = 4, then  $ab = a^2$ ?
- 9. Huck Finn has 180 pages. One quarter of it, has how many pages?
- **10.** Twenty percent is equal to what decimal?



- **1.** Which is the greater value:  $\frac{4}{7}$  or  $\frac{6}{10}$
- 2.  $\frac{1}{5} + \frac{1}{5}$
- 3. Which value is equivalent to 30%:3/100, 3/10, 3/5, or 1/3
- 4. The Least Common Denominator of  $\frac{1}{2}$  and  $\frac{1}{8}$ ?
- 5. If  $a = \frac{1}{2}$  and b = 10, then ab = 1
- 6.  $42.381 \times 10^2$
- 7. Round 12,320 to the nearest hundred.
- 8. What is the difference between 8 and 14?
- 9. What score is shown on the dartboard?
- 10. Simplify:  $\frac{4}{20}$



- **1.** The Least Common Denominator of  $\frac{1}{4}$  and  $\frac{2}{5}$ ?
- 2. A single scoop of ice cream costs \$1.58. A double scoop costs \$1.80. How much more is the double scoop?
- 3. How much more liquid is needed to reach the 8 level?
- 4. List two ways you can make \$2.50 in change.
- 5. The absolute value of -22?
- 6. One kilometer = x meters
- 7. Which is the greater value:  $2^8$  or  $8^2$
- 8. 4 weeks = x days
- 9. Identify the composite numbers: 4, 5, 8, 9, 11
- **10.** Reduce:  $\frac{4}{24}$



**1.** If 
$$3(4+2) = 2 \times 5 + x$$
, then  $x =$ 

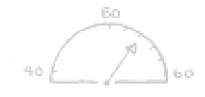
- 2. What is shown on the speedometer?
- 3. The sum of 8 and 14.
- 4. What is the diameter of the circle?
- *5*. 1<sup>17</sup>
- 6. Write  $\frac{13}{5}$  as a mixed number.



$$200 \div 100$$

9. If 
$$3(1+m) = 15$$
, then  $m =$ 

10. An Octagon has how many sides total?





- **1.** What is the radius of the circle?
- $2. 10^8$  is the same as 1 followed by how many zeros?
- 3. If  $10,000 = 10^k$ , then k =
- **4.** Identify the pattern: 1, 7, 13, 19

5. 
$$\frac{2}{3} \times 1\frac{1}{2}$$

6. If 
$$15 \div s = 1$$
, then  $s =$ 

- 7. Five weeks ... One month
- Three feet ... One yard

9. 
$$\frac{1}{2}$$
... $\frac{1}{3}$ 

10. 
$$3\frac{1}{2}...\frac{7}{2}$$



1.  $(3 \times 1,000) + (2 \times 100) + (5 \times 10)$ 

2. If 
$$3.4 = \frac{j}{8}$$
, then  $j =$ 

3. 
$$3+4\times6$$

**4.** If 
$$ab = 20$$
 and  $a = 4$ , then  $b =$ 

- 5. Write  $3\frac{1}{3}$  as an improper fraction.
- 6. How many centimeters of rain were there in March?

7. 
$$\frac{32}{(4\times2)} \times 4$$

- 8. Ten centuries equal how many years?
- 9. Identify the prime numbers: 2, 3, 8, 11, 13

**10.** If 
$$a - 8$$
, then  $a^2 =$ 





- **1.**  $(5 \times 1,000) + (6 \times 10)$
- 2. If the train left at 5: 48 p. m. and arrived at 6: 20 p. m., how long was the trip?
- 3. How many wheels are on the train shown in question 2?
- 4. Identify the numerator:  $\frac{3}{8}$
- *5.* What is the mean of 3, 7, 17?

6. 
$$\frac{1}{5} = x \%$$

- 7.  $\sqrt{49}$
- 8. If  $\frac{x}{1000} = 0.019$ , then x =
- 9.  $\frac{1}{2} \times 12$
- **10.** Forty-eight inches = x feet

1. 
$$\frac{1}{3} \times \frac{2}{5}$$

$$2. \quad \left(\frac{1}{2}\right)\left(\frac{1}{4}\right)$$

3. If 
$$a = 2$$
 and  $b = 4$ , then  $\frac{a}{b} =$ 

4. Write  $5\frac{1}{2}$  as an improper fraction.

$$5. \quad 0.3 + 0.4$$

6. Identify the greater value: 
$$\frac{3}{4}$$
 or  $\frac{3}{5}$ 

7. Write 
$$\frac{1}{2}$$
 as a decimal.

8. When the time is 8: 10, the minute hand is on what number?

9. 
$$\frac{43}{100} \times 100$$







- 1. Identify the value that shows about how long your bed is:
- 2.  $1\frac{1}{2}$  hours = x minutes
- 3. (-4) + (-7)
- 4. What number is missing: 16, 14, 12, 10, 8, 4, 2
- 5. Identify the greater value: 0.005 or 0.5
- *6.* Thirty-two *ounces* = x *pounds*
- 7. Fourteen is how many more than a dozen?
- 8. True or False: The product of eight and one is more than their sum?
- 9. Which letter has one line of symmetry: O, R, E, S
- **10.** What does three to the second power equal?