6.EE.7 STUDY GUIDE

Enter the appropriate word(s) to complete the statement.
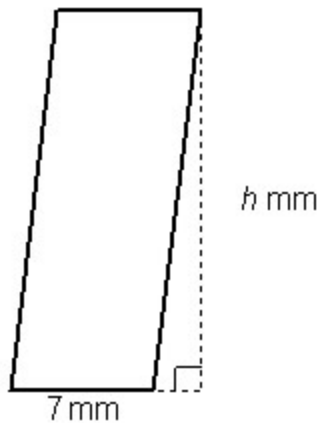
1. Find the value that makes the number sentence true.

$$\frac{n}{8} = 8$$

$n =$ _____

Indicate the answer choice that best completes the statement or answers the question.

___ 2. The area of the parallelogram is 63 mm^2.
What is an equation you can use to find its height? _____

7 mm

h mm

a. $63 = 7 + h$

b. $63 = 7h$

c. $2 * (7 + h) = 63$

d. $\frac{1}{2}(7 * h) = 63$

Enter the appropriate word(s) to complete the statement.

3. Find the value that makes the number sentence true.
$0.3n = 381$

$n =$ _____

4. Find the value that makes the number sentence true.
$w * 10^{-1} = 35.16$

$w =$ _____

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5. Find the solution for the equation.

$$11^2 + h = 80$$

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

6. ▭ **Use pencil and paper to answer the question.**

Find the missing value that makes the number sentence true.

$$\frac{5}{8} + t = 6 \qquad\qquad t = \underline{\hspace{2cm}}$$

Indicate the answer choice that best completes the statement or answers the question.

___ 7. The area of the parallelogram is 21 mm^2.
What is an equation you can use to find its height? _____

3 mm

a. $\frac{1}{2}(3 * h) = 21$

b. $21 = 3 + h$

c. $2 * (3 + h) = 21$

d. $21 = 3h$

8. ▭ **Use pencil and paper to answer the question.**

Find the missing value that makes the number sentence true.

$$t + \frac{1}{6} = 8 \qquad\qquad t = \underline{\hspace{2cm}}$$

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Enter the appropriate word(s) to complete the statement.

9. Find the value that makes the number sentence true.

$$\frac{n}{11} = 11$$

$n = $ _____

Enter the appropriate value to answer the question or solve the problem.

10. In the equation $3.14d = 128.74$, the variable d represents the length of the diameter of a circle. What is the diameter?
_____ units

Enter the appropriate word(s) to complete the statement.

11. Find the solution for the equation.

$$7^2 + r = 320$$

$r = $ _____

12. ✏️ **Use pencil and paper to answer the question.**
Write an equation to represent the following situation.
Yesterday, Mario had $\$x$ in his savings account. Today he deposited $35.
Now he has $62 in his account.
Equation: _____

Enter the appropriate word(s) to complete the statement.

13. Find the value that makes the number sentence true.
$$0.9n = 53.1$$

$n = $ _____

14. ✏️ **Use pencil and paper to answer the question.**
Find the value that makes the number sentence true.
$$1{,}120 * n = 140$$

$n = $ _____

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15. ▭▷ **Use pencil and paper to answer the question.**
The formula $d = r * t$ calculates distance traveled at a specific speed and time.
d is the distance traveled
r is the rate
t is the time
Suppose the distance from your home to Chicago is 607 miles, and you drive at a constant rate of 65 miles per hour.
Write an equation you can use to find how long it will take you to get to Chicago.
Equation: _____

16. ▭▷ **Use pencil and paper to answer the question.**
The formula $d = r * t$ calculates distance traveled at a specific speed and time.
d is the distance traveled
r is the rate
t is the time
Suppose the distance from your home to Chicago is 524 miles, and you drive at a constant rate of 55 miles per hour.
Write an equation you can use to find how long it will take you to get to Chicago.
Equation: _____

17. ▭▷ **Use pencil and paper to answer the question.**
Find the value that makes the number sentence true.
$$\frac{4}{5}n = \frac{4}{15}$$

$n = $ _____

Enter the appropriate word(s) to complete the statement.

18. Find the solution for the equation.

$$250 = 11^2 + s$$
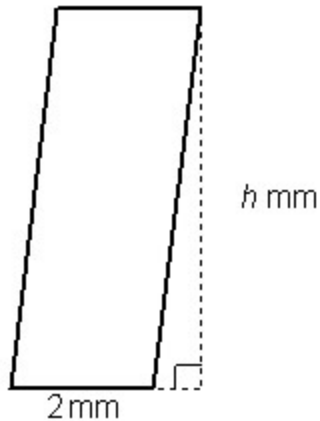
$s = $ _____

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Indicate the answer choice that best completes the statement or answers the question.

___ 19. The area of the parallelogram is 12 mm^2.
What is an equation you can use to find its height? _____

2 mm

a. 12 = 2h

b. $\frac{1}{2}(2 * h) = 12$

c. 2 * (2 + h) = 12

d. 12 = 2 + h

Enter the appropriate value to answer the question or solve the problem.

20. In the equation 3.14d = 207.24, the variable d represents the length of the diameter of a circle.
What is the diameter?
_____ units

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Answer Key

1. 64

2. b

3. 1,270
   1270

4. 351.6

5. −41

6. $5\frac{3}{8}$

7. d

8. $7\frac{5}{6}$

9. 121

10. 41

11. 271

12. $x + 35 = 62$

13. 59

14. $\frac{1}{8}$

15. $607 = 65 * t$

16. $524 = 55 * t$

17. $\frac{1}{3}$

18. 129

19. a

20. 66