



**THIRD SPACE  
LEARNING**

# Math Equations Check for Understanding

A 10 question retrieval quiz for  
students in grades 6, 7 and 8.

**Grades 6 to 8**

## Questions

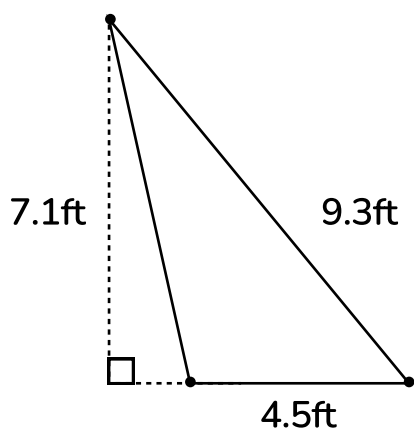
Name: .....

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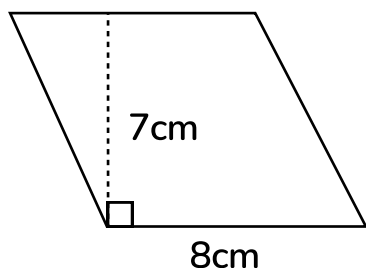
Score: .....

- 1 Find the area of the triangle using the formula  $A = \frac{1}{2} \times b \times h$ .



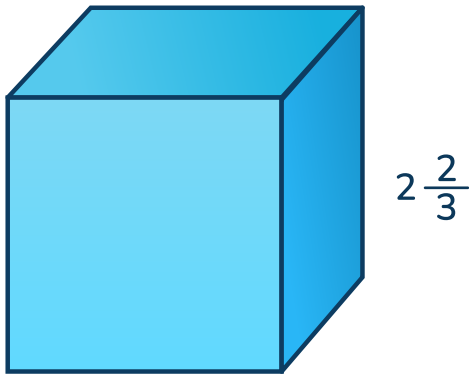
Answer

- 2 Find the area of the parallelogram using formula  $A = b \times h$ .



Answer

- 3 Find the volume of the cube given the formula  $V = s^3$ .



Answer

- 4 Circle the numbers that are part of the solution set for  $x \geq 15$ .

-2, 0, 15, 17, 234

- 5 Find the value of  $m^2 + 14$  when  $m = 11.2$

Answer

- 6 Find the value of  $\frac{y}{5} - 3r$  when  $y = 50$  and  $r = 3$ .

Answer

7 Solve the equation,  $x - 34 = 98$ , for  $x$ .

Answer

8 Solve the equation,  $3x = 36$ , for  $x$ .

Answer

9 Solve the equation,  $\frac{1}{3}x + 1 = 37$ , for  $x$ .

Answer

10 Solve the equation,  $\frac{2x}{8} - 5 = 5$ , for  $x$ .

Answer

## Answers

Question number	Question	Answers	Standard
1	Find the area of the triangle using the formula $A = \frac{1}{2} \times b \times h$ .	$A = \frac{1}{2} \times 4.5 \times 7.1$ $= 15.975 \text{ ft}^2$	6.EE.A.2c
2	Find the area of the parallelogram using formula $A = b \times h$ .	$A = 8 \times 7$ $= 56 \text{ cm}^2$	6.EE.A.2c
3	Find the volume of the cube given the formula $V = s^3$	$V = (2 \frac{2}{3})^3$ $= 2 \frac{2}{3} \times 2 \frac{2}{3} \times 2 \frac{2}{3}$ $= \frac{8}{3} \times \frac{8}{3} \times \frac{8}{3}$ $= \frac{512}{27}$ $= 18 \frac{26}{27} \text{ units}^3$	6.EE.A.2c
4	Circle the numbers that are part of the solution set for $x \geq 15$ . -2, 0, 15, 17, 234	15, 17, 234	6.EE.B.5
5	Find the value of $m^2 + 14$ when $m = 11.2$	$m^2 + 14$ $= 11.2^2 + 14$ $= 125.44 + 14$ $= 139.44$	6.EE.B.5
6	Find the value of when and $\frac{y}{5} - 3r$ when $y = 50$ and $r = 3$ .	$\frac{y}{5} - 3r$ $= \frac{50}{5} - 3 \times 3$ $= 10 - 9$ $= 1$	6.EE.B.5
7	Solve the equation, $x - 34 = 98$ , for $x$	$x - 34 = 98$ $x - 34 + 34 = 98 + 34$ $x = 132$	6.E.E.B.6 6.E.E.B.7




Question number	Question	Answers	Standard
8	Solve the equation, $3x = 36$ , for $x$ .	$3x = 36$ $3x \div 3 = 36 \div 3$ $x = 12$	6.E E.B.6 6.E E.B.7
9	Solve the equation, $\frac{1}{3}x + 1 = 37$ , for $x$ .	$\frac{1}{3}x + 1 = 37$ $\frac{1}{3}x + 1 - 1 = 37 - 1$ $\frac{1}{3}x = 36$ $\frac{1}{3}x \cdot 3 = 36 \cdot 3$ $x = 108$	7.E E.A.1 8.E E.C.7
10	Solve the equation, $\frac{2x}{8} - 5 = 5$ , for $x$ .	$\frac{2x}{8} - 5 = 5$ $\frac{2x}{8} - 5 + 5 = 5 + 5$ $\frac{2x}{8} = 10$ $\frac{2x}{8} \cdot 8 = 10 \cdot 8$ $2x = 80$ $2x \div 2 = 80 \div 2$ $x = 40$	7.E E.A.1 8.E E.C.7

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-  [thirdspacelearning.com/us/](https://thirdspacelearning.com/us/)
-  +1 929-298-4593
-  [hello@thirdspacelearning.com](mailto:hello@thirdspacelearning.com)



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