

Warm-Up

February 26, 2020



A Math tutor charges \$15.75 for each hour and a fixed cost of \$8.00.

i) Write a let statement for both variables.

Let "h" represent hours
Let "c" represent cost

ii) Write an equation that relates the cost to the hours hired

$$C = 8 + 15.75h \quad C = 15.75h + 8$$

iii) How much will a tutor cost for 4 hours?

$$\begin{aligned} C &= 8 + 15.75h \\ C &= 8 + 15.75(4) \\ C &= 8 + 63 \\ C &= 71 \end{aligned}$$

BEDMAS

iii) if you paid \$106.00 how many hours were you tutored?

$$\begin{aligned} C &= 8 + 15.75h \\ 106 &= 8 + 15.75h \quad \leftarrow \text{solve equations} \\ \begin{array}{r} .4 \\ 8 + 15.75h = 106 \end{array} & \quad \begin{array}{r} -8 \\ -8 \end{array} \\ \hline 15.75h &= 98 \\ \begin{array}{r} 15.75 \quad 15.75 \\ \hline \end{array} & \quad \begin{array}{r} 98 \\ 98 \end{array} \\ h &= 6.2h \end{aligned}$$

1. Write the equation given the following data table.

picture number [n]	number of triangles [t]
1	4
2	6
3	8
4	10

4 $\rightarrow +2$
 6 $\rightarrow +2$
 8 $\rightarrow +2$
 10 $\rightarrow +2$

Equation

$$t = 2n + 2$$

Expression $2n + 2$

2. Solve the number of triangles in 56 pictures. $t = ?$ $n = 56$

$$t = 2n + 2$$

$$t = 2(56) + 2$$

$$t = 112 + 2$$

$$t = 114$$

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3. Solve picture number given 202 triangles.

$$t = 2n + 2$$

$$202 = 2n + 2$$

$$2n + 2 = 202$$

$$\frac{2n}{2} = \frac{200}{2}$$

$$n = 100$$

Equation

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- #11 * Draw the table
 * show the common difference
 * write the equation

12. a, c,d,e

14. a, b,c

15. a, b,c

16. a,b

17. Make a table...[size.... number of stones]

19. ***Figure number with PERIMETER*** [count around
 the shape]

Answers

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Figure number with AREA [count the blocks
 inside the shape]