

Year 7 Weekly Tutorial - 08

mathsalpha.com

1. Simplify.

a) $25 \div 5(3 \times 2 - 4)$

b) $12 - 3(5 \times 3 - 4 \times 6)$

2. Simplify.

a) $3(2 - x) - (x + 3)$

b) $2(2x + 5) - 3(3x - 12)$

3. Find HCF and LCM of 24, 36 and 48.

4. Solve.

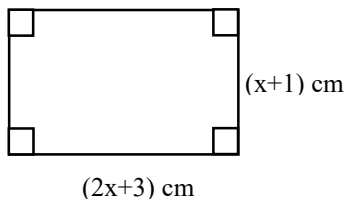
a) $3 + 5(x - 3) = 2x + 5$

c) $\frac{4x+3}{2} = \frac{5x-7}{3}$

b) $\frac{3}{5}(2x - 7) = 9$

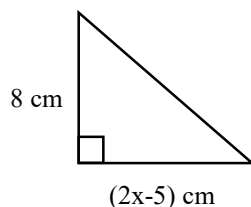
d) $\frac{x-12}{-3} = \frac{5-x}{2}$

5.



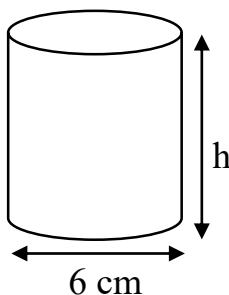
Find the dimension of the rectangle, if the perimeter of the rectangle is 34 cm.

6.



Find x , if the area of the triangle is 30 cm^2 .

7.



The volume of a cylinder is given by the formula, $v = \pi r^2 h$

Find the height of the cylinder, if the volume of the cylinder is 198 cm^3 .

(take $\pi = \frac{22}{7}$)

8. Solve the following inequalities.

a) $3(x - 1) > x + 5$

c) $2(x + 3) \geq x + 1$

b) $\frac{2x-1}{3} < 3$

d) $3x + 7 \leq 4x + 5$

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