

Year 7 Weekly Tutorial - 09

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1. Solve the following liner equations.

a) $7 - 3(x + 2) = 13 - 5x$

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

2. Solve the following inequalities.

a) $5(2x - 1) - 3 > 7x + 1$

b) $\frac{2x+13}{3} < \frac{x+8}{2}$

3. Find the minimum whole number of x , if x satisfy the inequality.

$$2(x - 5) > x - 7$$

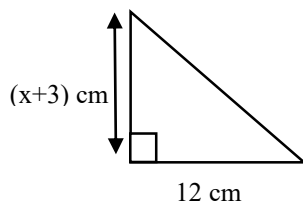
4. Find the maximum whole number of x , if x satisfy the inequality.

$$\frac{3}{2}(x - 4) \leq x - 3$$

5. If $u = 3$, $v = 5$, $a = 4$ and $v^2 = u^2 + 2as$. Find the value of s .

6. $y = \frac{2a^2-5b^2}{5ab}$, Find y if $a = -5$ and $b = 3$

7.



Find the height of the triangle, if the area is 90 cm^2 .

8. Simplify the following fractions.

a) $\frac{14}{49}$

b) $\frac{12}{72}$

c) $\frac{45}{125}$

d) $\frac{64}{156}$

9. Write the following mixed numbers as improper fractions.

a) $3\frac{2}{5}$

b) $2\frac{5}{7}$

c) $5\frac{3}{8}$

d) $7\frac{5}{12}$

10. Simplify the following.

a) $\frac{2}{5} \times \frac{2}{3}$

c) $\frac{13}{15} \times \frac{2}{3}$

e) $\frac{99}{100} \times \frac{25}{81}$

g) $60 \times \frac{2}{5}$

b) $\frac{3}{7} \times \frac{2}{11}$

d) $\frac{12}{13} \times \frac{5}{24}$

f) $\frac{7}{9} \times \frac{3}{5}$

h) $64 \times \frac{5}{16}$