

Year 7 Weekly Tutorial - 10

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1. Expand and simplify.

a) $5(x - 7) - (3x - 2)$

b) $2x(x - y) - y(x + y)$

2. Factorize.

a) $27x^2 + 9x$

b) $5x^2 - 15x$

3. Solve.

a) $\frac{2}{3x-1} = \frac{3}{5x-7}$

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

4. Solve.

a) $3 - 5(x + 1) > 15 - 4x$

b) $3(5 - x) \leq 12 - 4x$

5. Find the value of y , if $a = -3$, $b = 4$, $c = \frac{1}{2}$ and $y = \frac{a^2 - 2bc}{3c}$

6. Simplify the following. Give the answers in its simplest form.

a) $2\frac{3}{4} + 3\frac{2}{3}$

c) $2\frac{1}{7} - \frac{3}{5}$

b) $7\frac{5}{8} - 5\frac{1}{4}$

d) $5\frac{3}{8} - 3\frac{1}{5}$

7. Simplify the following. Give the answers in its simplest form.

a) $3\frac{1}{3} \times 1\frac{5}{7}$

d) $3\frac{1}{5} \div \frac{8}{15}$

b) $2\frac{3}{7} \times 3\frac{1}{6}$

e) $3\frac{1}{5} \div 3\frac{2}{10}$

c) $8\frac{3}{4} \times 3\frac{3}{7}$

f) $2\frac{3}{7} \div 1\frac{3}{14}$

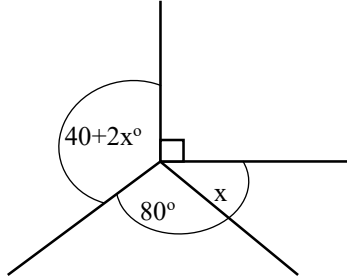
8. Work out the following.

a) $3\frac{1}{5} - 2\frac{1}{3} \div 2\frac{4}{5}$

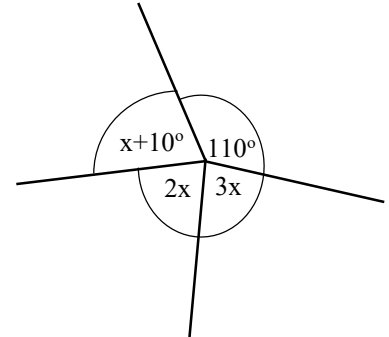
b) $12 + 3\frac{2}{5} \div 3\frac{3}{4}$

9. Find unknown angles.

a)

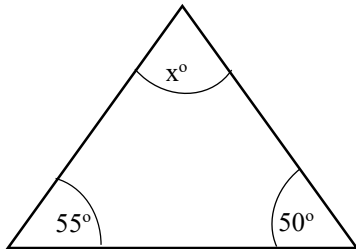


b)



10. Find unknown angles.

a)



b)

