

Year 7 Tutorial - 21

mathsalpha.com

1. Simplify.

a) 9.2×500

b) $2.5 \div 0.005$

2. Simplify.

a) $15 - 8 \times 2 + 3$

b) $5^2 - 4^2 \times 5 \div 20$

3. Simplify.

a) $3\frac{2}{5} \times 35$

c) $3\frac{2}{5} + 1\frac{1}{3} \times 2\frac{1}{4}$

b) $3\frac{3}{7} - 2\frac{3}{5}$

d) $2\frac{1}{5} - 1\frac{1}{3} \div \frac{8}{9}$

4. Simplify.

a) $3(2x - 1) - 5x$

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

5. Solve.

a) $3x + 2 = x - 7$

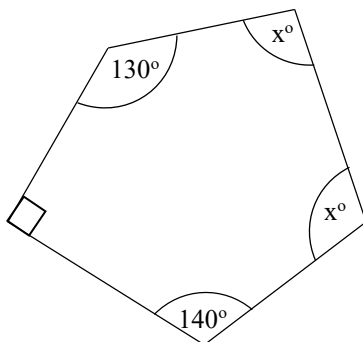
c) $\frac{3}{2}(x + 5) = x + 7$

b) $3(x - 1) = 2(x + 3)$

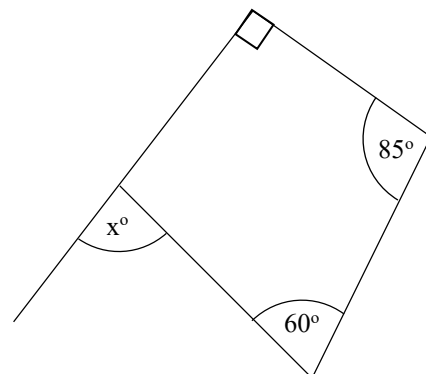
d) $\frac{5}{3}(x - 4) = x - 5$

6. Find the unknown angles.

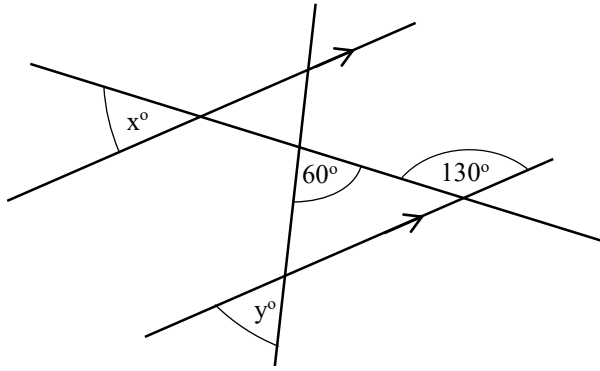
a)



b)



7.

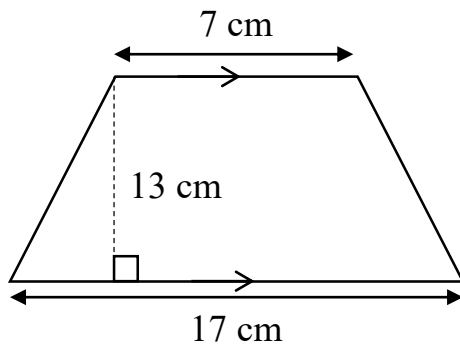


Find x° and y° . Give reason for your answers.

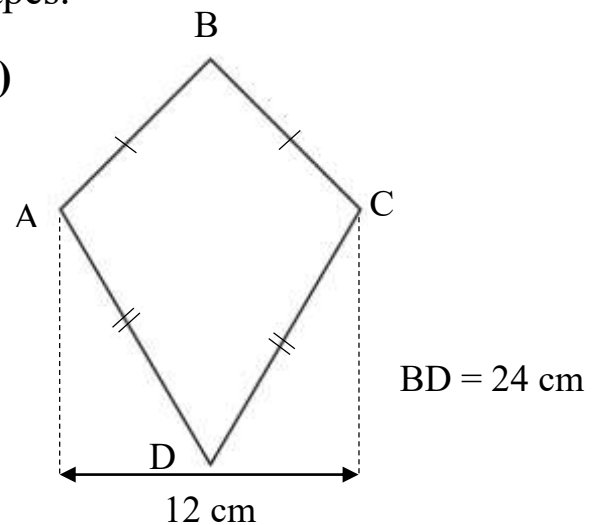
8. The area of a circle is 300 cm^2 . Find the circumference of the circle correct to 1dp.

9. Find the surface area of the following shapes.

a)



b)



10. The equation of straight line is $y = 3x - 2$. Draw the straight line in the range, $-1 \leq x \leq 1$.

11. Find the sum of interior angles of a regular polygon if an exterior angle is 12° .

12. Use the stem and leaf diagram below to find mode, median, average and range of the data.

2		0 3 4 4 5 6
3		1 2 3 4
4		3 1 2 2 4 7 8

key : 3 | 2 means 32

