

Year 7 Weekly Tutorial - 24

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1. Work out the following.

a) $4 \times 3(3 \times 5 - 12 \div 4)$

b) $5^2 - 2(4^2 \times 3 \div 12)$

2. Simplify.

a) $3 - 4(x - 5) + 7x$

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

3. Simplify.

a) $\frac{5^5 \times 4^3 \times 5^0}{4^2 \times 5^3}$

b) $\frac{(2 \times 3^2)^2 \times 2^2 \times 3}{2^3 \times 3^3}$

4. Solve.

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

c) $\frac{3}{2}(x - 1) = 2x + 5$

b) $3 - \frac{(x+1)}{2} = 4$

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

5. Solve and show the solutions on the number line.

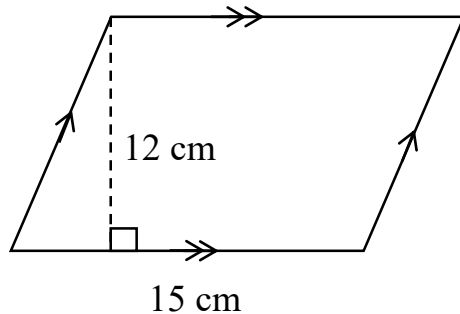
a) $4x + 3 \geq 3x + 5$

b) $3(x - 1) < 2x - 5$

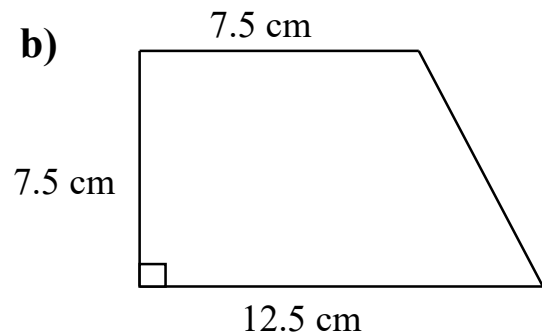
6. Draw the straight line $y = 3 - 2x$ in the range, $0 \leq x \leq 2$.

7. Find the area of the following shapes.

a)

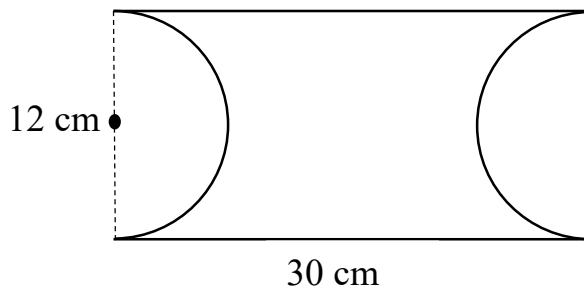


b)



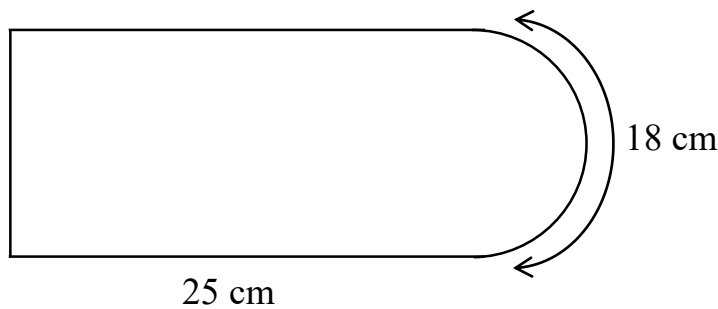
8. Find the area of the following shapes correct to 1dp.

a)



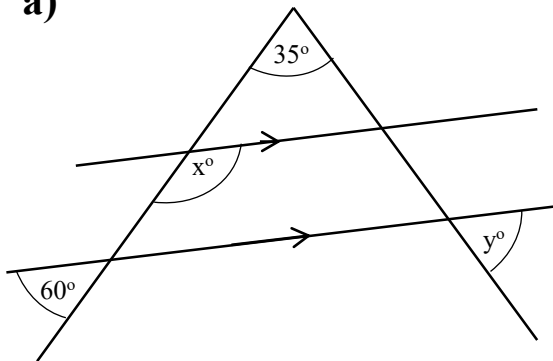
Semicircle of radius 6 cm cut from each side of the rectangle.

b)

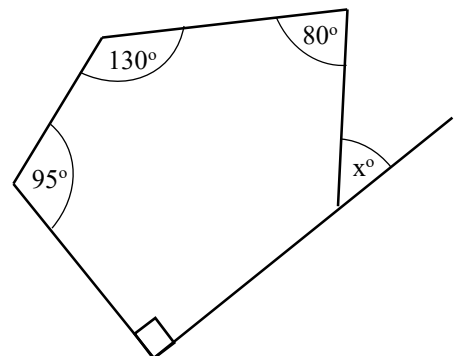


9. Find the unknown angles.

a)



b)



10.

- Draw a stem and leaf diagram for the following data.
- Find the median of the data.
- Find the average of the data.

10.3	10.5	11.2	11.3
12.5	13.6	12.4	15.4
10.7	12.2	12.5	15.2
13.2	10.4	11.3	12.8