

Year 7 Tutorial - 13

mathsalpha.com

1. Expand and simplify

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

b) $2\left(\frac{x}{2} + 3\right) - 5\left(\frac{x}{5} - 1\right)$

2. Find y , if $y = 3a^2b - 2b^2$, $a = -4$, $b = 2$

3. Work out the following.

a) $2^3 \times 3^4 \times 2^{-1} \times 3^{-2}$

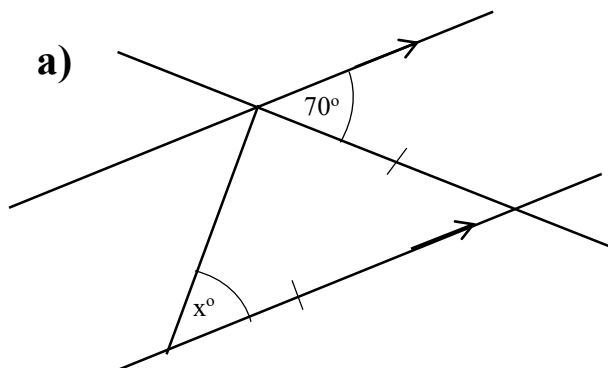
b) $5^2 \times 4^3 \times 5^1 \times 4^{-2}$

4. Simplify.

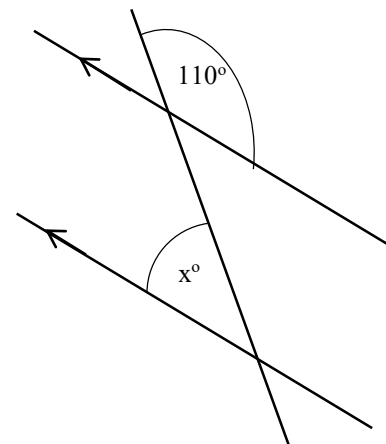
a) $7\frac{3}{4} - 5\frac{1}{3}$

b) $3\frac{2}{5} \times 3\frac{3}{4}$

5. Find the unknown angles.

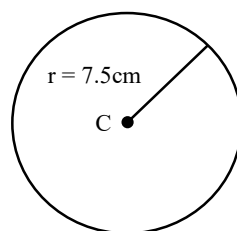


b)

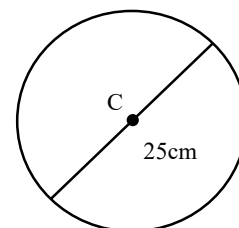


6. Find the area and circumference of following circles. Give the answers correct to 1dp.

a)



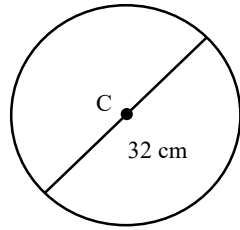
b)



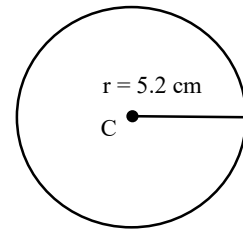
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Dharana Siriwarnage, PGD (maths), BSc

c)

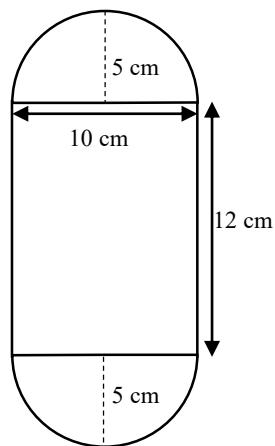


d)

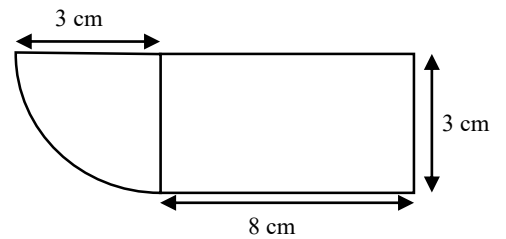


7. The area of a circle is 500 cm^2 . find the radius of the circle, correct 1 dp.
8. The circumference of a circle is 350 cm . Find the radius of the circle.
9. Find the total surface area of the following shapes. (Give the answers correct to 1 dp)

a)



b)



10. Find the shaded area correct to 1 dp.

