



Rosary School \ Marj Elhamam

Name :

Date : / 8 / 2025

Subject: Math Revision Worksheet

Grade : 8 ()

Q1: Work out.

$$1. \quad 3 + 5 \times 2 =$$

$$5. \quad 10 - -3 =$$

$$2. \quad (4 + 3)^2 =$$

$$6. \quad -20 \div -2 =$$

$$3. \quad \sqrt{49} + 2^3 =$$

$$7. \quad 5 \times -3 =$$

$$4. \quad 24.8 \times 0.001 =$$

$$8. \quad 52 \div 0.1 =$$

Q2: Write 504 as the product of its prime factors

Q3: Find the HCF and LCM of 140 and 504 by using prime factor decomposition.

HCF of 140 and 504 is _____

LCM of 140 and 504 is _____

Q4: Solve the following equations:

a) $x + 5 = 12$

b) $8 - y = 10$

c) $2(x + 3) = 12$

d) $14 = \frac{x}{5} + 12$

Q5: Simplify the following expressions:

a) $5x^3 \times 3x^2 =$

b) $\left(\frac{r^2}{2}\right)^2 =$

c) $\frac{a^5}{a^2} =$

d) $(b^2)^3 =$

e) $(2a^2)^3 =$

Q6: Expand and Simplify $x(2x^2 + 5) + 3x(4x^2 + 7)$

Q7: Factorise completely:

a) $x^2 + 5x$

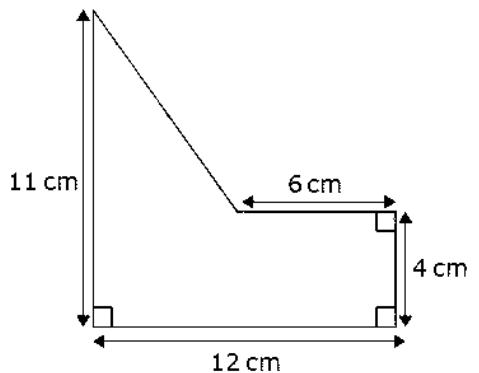
b) $3a^2 - 6a$

Q8: Evaluate the following expressions for the given values:

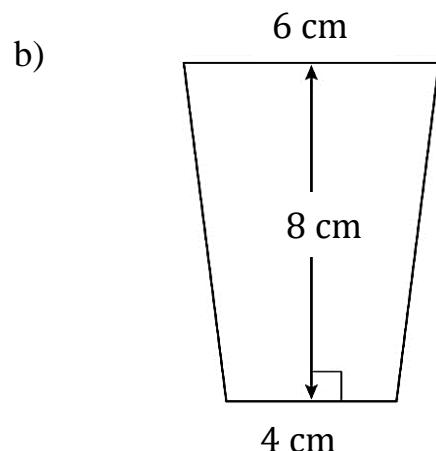
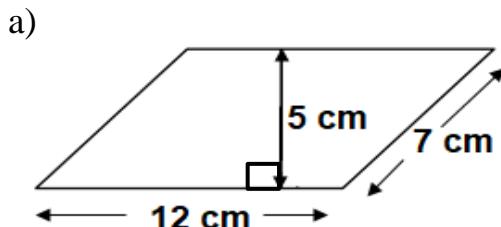
a) $x^2 + 3x + 2$ for $x = 2$

b) $2a^3 - 4a$ for $a = -1$

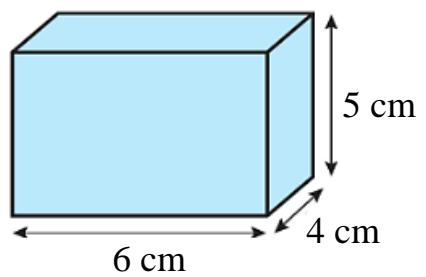
Q9: Find the area of the following compound shape:



Q10: Find the area of the following shapes.



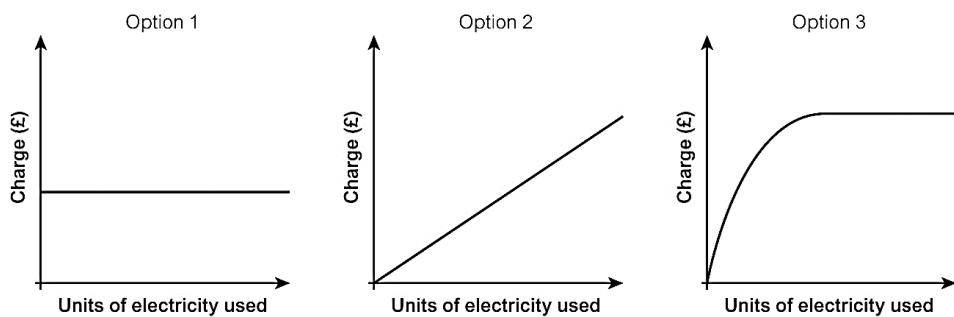
Q11: A cuboid has edges of length 6 cm, 4 cm, 5 cm. Work out the volume.



Q12: Complete the following table

Fraction	Decimal	Percentage (%)
$\frac{17}{20}$		
		3.3 %

Q13: The owners of a holiday house consider three different ways of charging for electricity.



Which of these graphs shows direct proportion? Explain your answer.

Q14: Work out.

Give each answer in its **simplest form** and as a **mixed number** where necessary.

a) $\frac{9}{10} \times \frac{5}{18} \times \frac{4}{7} =$

b) $1\frac{2}{3} \div \frac{2}{9} =$

c) $8\frac{1}{2} + \frac{2}{3} - \frac{3}{4} =$

d) $5\frac{1}{3} - 2\frac{5}{6} =$

Q15: Round these numbers to:

Number	the nearest whole number	1 d.p	2 d.p
12.945			
65.382			

Q16: Write the following recurring decimal as a fraction.

0. $\overline{14}$

Q17: Simplify the ratio **1.8 : 1.2** into a whole number ratio in its simplest form.

Q18: a) John invests £ 3000. He earns 4% simple interest per year.

How much interest does he earn in 6 years?

£.....

b) Salim invests £ 10 000 in a savings account. The bank pays 4% compound interest per year. How much does Salim have after 2 years?

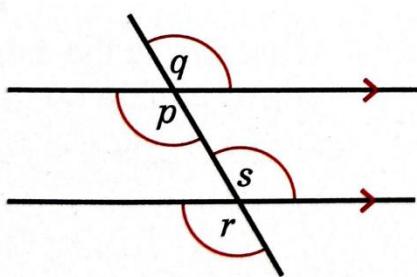
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Q19: A regular polygon has twelve sides. Find the sum of the interior angles.

Q20: Sam gets a pay rise of 9%. His old salary was \$20000.
What is his new salary?

\$

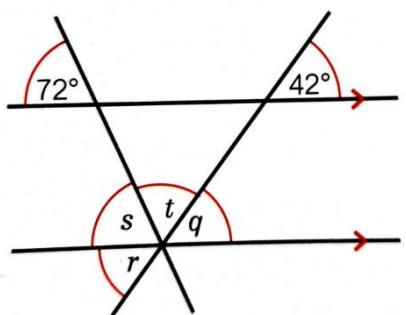
Q21: Complete these statements.



a) p and q are angles.

b) q and s are angles.

Q22: Work out the size of each angle marked with a letter.



$$q = \dots \text{ } ^{\circ}$$

$$r = \dots \text{ } ^{\circ}$$

$$s = \dots \text{ } ^{\circ}$$

$$t = \dots \text{ } ^{\circ}$$



Teacher: Sally Serkisian