

SANGAM SKM COLLEGE- NADI 2021
YEAR 11 APPLIED-MATHEMATICS
WORKSHEET 2 WEEK 3

Q1. **Factorise** the following completely $6m^2 + 2mn - n^2 - 3mn$

A. $(3m - n)(n + 2m)$

B. $(3n + m)(2m - n)$

C. $(3n + m)(2n - m)$

D. $(3m + n)(2m - n)$

Q2. When **expanded** $(y - 4)(y + 3)$ will be equal to?

A. $y^2 - y - 12$

B. $y^2 + 7y + 12$

C. $-y^2 + y - 12$

D. $y^2 + y - 12$

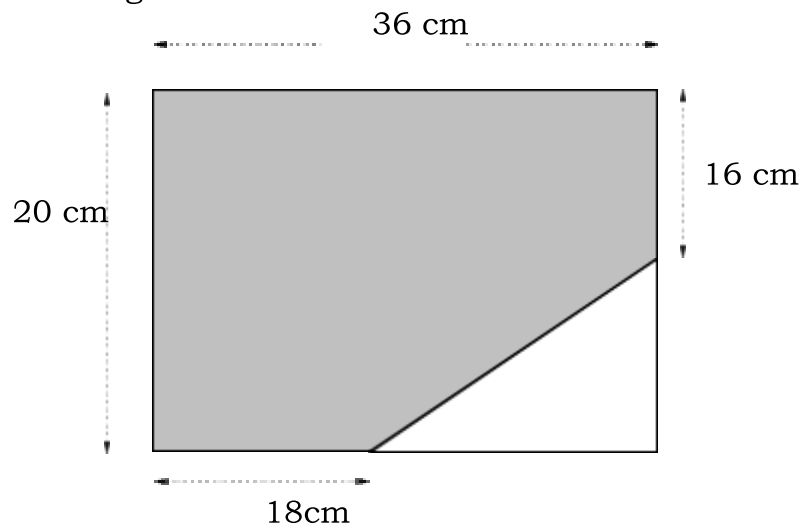
Q3. The **solution set** for the equation $|2x + 4| = 8$ is?

Q4. Solve the **inequality** $3x + 10 \geq -5$

Q5. Solve $\frac{x+1}{3} = \frac{2x+6}{8}$

Q6. Expand and simplify $3(2x + 3)(x - 1) + 4x(5 - x)$

Q7. Refer to the figure shown below.



Calculate the area of the shaded region in the figure.