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Year 8 Maths Homework Sheet No.16

To be completed on loose-leaf paper.

Aims:

- To provide ongoing revision of skills and concepts
- To develop procedural knowledge and fluency.



Need help? →

Question 1: Evaluate the following

a. $(-35) - (-47)$

b. $-6 \times 3 \times -10$

Question 2:

On a Cartesian plane the point $(-3, -8)$ is found in which quadrant?

Question 3:

Evaluate each expression by substituting $a = 5$, $b = 4$ and $c = -2$.

a. $\frac{2a + b}{7}$

b. $8(3a - 4b)$

c. $\frac{b + 2c}{a}$

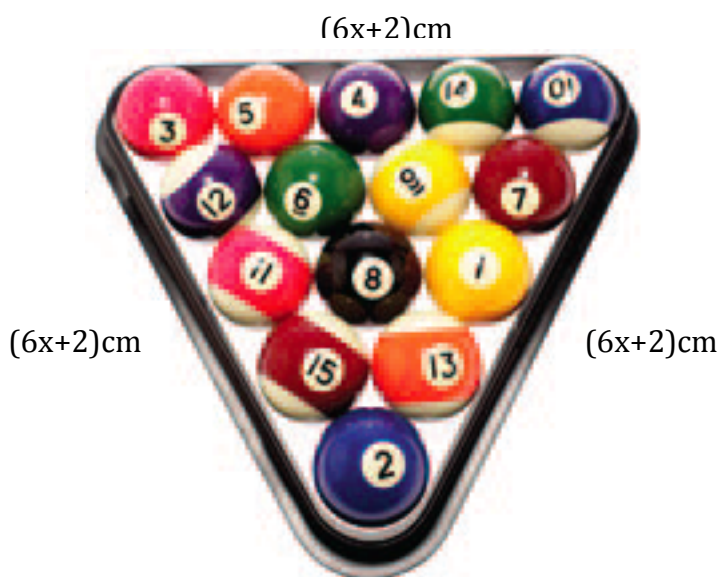
Question 4: Simplify the following expressions

a. $4a + 2a + 6b + 8b$

b. $2a + 3b - 7a + 11b$

c. $6ab - ba + 3ab - 12ab$

Question 5: Find the perimeter of this diagram, expressing your answer in simplest form.



Question 6: Expand and simplify the following

a. $2e(e + 4) - (e - 3)$

b. $4a(b + 1) - 3(6 + ab)$

Question 7: Solve these equations, showing all working.

a. $3(x + 17) = 39$

b. $\frac{x-4}{7} = -4$

Selected Answers to Homework sheet 16

1b. 180 3a. 2 b. -1 c. 0

7a. -4 b. -24