Solving Basic Equations Exam Practice

Filling the gaps

Q1. Find the missing value.

(i) $7 + \square = 12$ [1 Mark]

(ii) $15 - \square = 4$ [1 Mark]

(iii) $15 - \square = 18$ [1 Mark]

Q2. Fill in the gaps.

(i) $\square - 7 = 12$ [1 Mark]

(ii) $15 = 4 + \square$ [1 Mark]

(iii) $21 = 18 - \square$ [1 Mark]

Using Letters as Unknowns (Addition and Subtraction)

Q3. Find the value of the unknown variable in each equation.

(i) $17 + x = 25$

$x =$ _____

[1 Mark]

(ii) $37 - y = 21$

y = _____

[1 Mark]

(iii) $50 = 42 - z$

z = _____

[1 Mark]

Using Letters as Unknowns (Multiplication)

Q4. Find the value of the unknown quantities in each of the following cases.

(i) $6d = 18$

d = _____

[1 Mark]

(ii) $12s = 72$

s = _____

[1 Mark]

(iii) $6q = -24$

q = _____

[1 Mark]

(iv) $-11r = 121$

q = _____

[1 Mark]

Using Letters as Unknowns (Division)

Q5. Find all of the unknown values.

(i) $\frac{c}{5} = 25$

c = _____

[1 Mark]

(ii) $\frac{d}{8} = 8$

d = _____

[1 Mark]

(iii) $\frac{e}{-5} = 10$

c = _____

[1 Mark]

(iv) $\frac{e}{5} = -10$

c = _____

[1 Mark]

Equations Involving Collecting Like Terms

Q6. Find the value of the unknown in each of the following:

(i) $q + q + q + q = 16$

q = _____

[2 Marks]

(ii) $3r + 2r - r = 28$

r = _____

[2 Marks]

(iii) $6q - 8q = 8$

q = _____

[2 Marks]

(iv) $6y - 2y - 8y = 12$

y = _____

[2 Marks]