SOLVING ONE STEP EQUATIONS

Pearson Edexcel - Thursday 4 June 2020 - Paper 2 (Calculator) Foundation Tier

1.

10 (a) Solve $3m = 36$

$m =$ ....
(1)

(b) Solve $7 - x = 3$

$x =$ ....
(1)

(Total for Question 10 is 2 marks)

Pearson Edexcel - Monday 12 November 2018- Paper 3 (Calculator) Foundation Tier

2.

1 Write a number in each box to make the calculation correct.

(i) $56.3 +$ ☐ $= 100$
(1)

(ii) $\dfrac{2}{7} +$ ☐ $= 1$
(1)

(Total for Question 1 is 2 marks)

Pearson Edexcel - Thursday 2 November 2017 - Paper 1 (Non-Calculator) Foundation Tier

3.

3 Solve $\dfrac{y}{4} = 10.5$

$y =$ ....

(Total for Question 3 is 1 mark)

Pearson Edexcel – Specimen 1 - Paper 3 (Calculator) Foundation Tier

4.

7 (a) Solve $f + 2f + f = 20$

$f =$..
(1)

(b) Solve $18 - m = 6$

$m =$..
(1)

(c) Simplify $d^2 \times d^3$

....
(1)

(Total for Question 7 is 3 marks)

OCR Monday 11 November 2019 – Afternoon (Calculator) Foundation Tier

5.

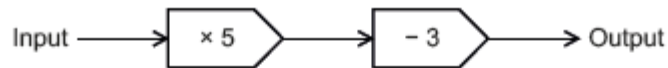**11** Multiply out.

(a) $3(x-2)$

(a) .... [1]

(b) $2a(a+b)$

(b) .... [2]

OCR Thursday 6 June 2019 – Morning (Non-Calculator) Foundation Tier

6.

6 Here is a function machine.

Input ⟶ ×5 ⟶ −3 ⟶ Output

(a) (i) Find the output when the input is 7.

(a)(i) .... [1]

(ii) Find the input when the output is 42.

(ii) .... [2]

(b) The input is x and the output is y.

Write an equation for y in terms of x.

(b) .... [2]

7.

8   Find the value of $3g - h$ when $g = 4$ and $h = 5$.

.... **[2]**

8.

12   Solve.

$$4x + 5 = 35$$

$x =$ .... **[2]**

9.

6 Solve.

(a) $x - 6 = 4$

(a) $x =$ .... [1]

(b) $\dfrac{12}{x} = 3$

(b) $x =$ .... [1]

10.

7   (a)   Solve.

   (i) $4x = 56$

(a)(i) $x =$ .... [1]

   (ii) $\dfrac{126}{x} = 7$

(ii) $x =$ .... [1]

   (iii) $8x - 6 = 46$

(iii) $x =$ .... [2]

(b)   Solve by factorising.

   $x^2 + 11x + 30 = 0$

(b) $x =$ .... or $x =$ .... [3]

11.

4 **(a)** Simplify.

(i) $5x - 6y - x + 3y$

(a)(i) .... [2]

(ii) $w^8 \div w^2$

(ii) .... [1]

(iii) $5c^2d \times 3c$

(iii) .... [1]

(b) Work out the value of

(i) $4x - 7$ when $x = 5$,

(b)(i) .... [1]

(ii) $\dfrac{p+7}{3}$ when $p = 2$.

(ii) .... [1]

AQA Tuesday 21 May 2019 – Morning (Non-Calculator) Foundation Tier

12.

2   Solve $4x = 8$

Circle your answer.

[1 mark]

$x = 0.5$ $x = 2$ $x = 4$ $x = 32$

AQA Thursday 11 June 2019 – Morning (Calculator) Foundation Tier

13.

2   Solve $x - 8 = 5$

Circle your answer.

[1 mark]

$x = -13$ $x = -3$ $x = 3$ $x = 13$

AQA Tuesday 6 November 2018 – Morning (Non-Calculator) Foundation Tier

14.

20   Solve $3x - 8 = 19$

[2 marks]

_____

_____

_____

_____

$x =$ _____

15.

5 (a)   Solve $n + 7 = 103$

[1 mark]

_____

_____

$n =$ _____

5 (b)   Solve $\dfrac{m}{6} = 12$

[1 mark]

_____

_____

$m =$ _____

16.

2   Solve $3x = 2$

Circle your answer.

[1 mark]

$x = -1$ $x = \dfrac{2}{3}$ $x = \dfrac{3}{2}$ $x = 6$

17.

5 (a)   Solve $x - 3 = 14$

[1 mark]

_____

_____

$x =$ _____

5 (b)   Solve $5y = 45$

[1 mark]

_____

_____

$y =$ _____

5 (c)   Solve $8 + w = 6$

[1 mark]

_____

_____

$w =$ _____

18.

12 $a - b = 5$

12 (a)   Work out the value of $2(a - b)$

[1 mark]

_____

_____

Answer _____

12 (b)   Work out the value of $7a - 7b$

[1 mark]

_____

_____

Answer _____

12 (c)   Work out the value of $b - a$

[1 mark]

_____

_____

Answer _____

AQA Wednesday 8 November 2017 – Morning (Calculator) Foundation Tier

19.

17   Circle the equation which has the solution $x = 6$

[1 mark]

$$x - 3 = \frac{x}{2} \qquad x = \frac{3 + x}{2} \qquad 3x = 36 \qquad \frac{x}{6} = 0$$

AQA Thursday 25 May 2017– Morning (Non-Calculator) Foundation Tier

20.

4   Solve $x - 3 = 0$

Circle your answer.

[1 mark]

$$x = -3 \qquad x = 0 \qquad x = \frac{1}{3} \qquad x = 3$$

AQA Thursday 8 June 2017– Morning (Non-Calculator) Foundation Tier

21.

11   Solve $4x - 3 = 14$

[2 marks]

_____

_____

_____

$x = $ _____

22.

14   Solve $4(x + 5) = 15$

[3 marks]

$x =$ _____