

1. (a) Work out $4 \times 3 + 2$

$$12 + 2$$

$$\begin{array}{r} 14 \\ \hline \end{array} \quad (1)$$

- (b) Work out $20 - 12 \div 4$

$$20 - 3$$

$$\begin{array}{r} 17 \\ \hline \end{array} \quad (1)$$

- (c) Work out $(18 \div 3) + (20 \div 5)$

$$6 + 4$$

$$\begin{array}{r} 10 \\ \hline \end{array} \quad (1)$$

- (d) Work out $(3 + 5)^2$

$$8^2$$

$$\begin{array}{r} 64 \\ \hline \end{array} \quad (1)$$

(4 marks)

2. Work out

- (i) $3 \times 3 - 5$

$$9 - 5$$

$$\begin{array}{r} 4 \\ \hline \end{array}$$

- (ii) $20 \div (12 - 2)$

$$20 \div 10$$

$$\begin{array}{r} 2 \\ \hline \end{array}$$

- (iii) $7 + 8 \div 4$

$$7 + 2$$

$$\begin{array}{r} 9 \\ \hline \end{array}$$

(3 marks)



3. Beth says $20 - 5 \times 3$ is 45

Pat says $20 - 5 \times 3$ is 5

- (a) Who is right?
Give a reason for your answer.

Pat is right.

Multiplication comes before subtraction

..... Pat is right

(2)

- (b) Work out $(12 + 9) \div 3$

$$21 \div 3$$

..... 7

(1)

(3 marks)

4. (a) Work out the value of

- (i) the square of 6

..... 36

- (ii) 2^4

..... 16

(2)

(b) Work out the value of

- (i) $-10 \div 5$

..... -2

- (ii) -3×-4

..... 12

(2)

(4 marks)

5. (a) Work out $2 \times (11 + 9)$

$$2 \times 20$$

$$\dots\dots\dots 40 \dots\dots\dots$$

(1)

- (b) Work out $3 \times 5 + 4$

$$15 + 4$$

$$\dots\dots\dots 19 \dots\dots\dots$$

(1)

- (c) Work out $20 - 5 \times 3$

$$20 - 15$$

$$\dots\dots\dots 5 \dots\dots\dots$$

(1)

(3 marks)

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6. (a) Work out the value of $(4 + 5) \times 2 + 3$

$$18 + 3$$

$$\dots\dots\dots 21 \dots\dots\dots$$

(1)

- (b) Add brackets () to make each statement correct.
You may use more than one pair of brackets in each statement.

(i) $4 + 5 \times (2 + 3) = 29$

(ii) $(4 + 5) \times (2 + 3) = 45$

(2)

(3 marks)

7. (a) Work out the value of $(2 + 3) \times 4 + 5$

$$20 + 5$$

$$\dots\dots\dots 25 \dots\dots\dots$$

(1)

- (b) Add brackets () to make each statement correct.
You may use more than one pair of brackets in each statement.

(i) $2 + 3 \times (4 + 5) = 29$

(ii) $(2 + 3) \times (4 + 5) = 45$

(2)
(3 marks)

8. Work out

(i) $2 \times 3 + 4$
 $6 + 4$

$$\dots\dots\dots 10 \dots\dots\dots$$

(ii) $3 + 5 \times 2$
 $3 + 10$

$$\dots\dots\dots 13 \dots\dots\dots$$

(ii) $16 \div (2 \times 4)$
 $16 \div 8$

$$\dots\dots\dots 2 \dots\dots\dots$$

(3 marks)

9. (a) Work out

$$\frac{-8 \times -3}{-6}$$

$$\frac{24}{-6}$$

$$\dots\dots\dots -4$$

(1)

(b) Work out

$$33 \times 10 - 6 \times 5$$

$$330 - 30$$

$$\dots\dots\dots 300$$

(2)

(c) Work out

$$6 + 2 \times (5 - 1)$$

$$6 + 8$$

$$\dots\dots\dots 14$$

(2)

(5 marks)

10. Frankie says that $15 - 3 \times 2 = 24$

Frankie is wrong.
Explain why.

Multiplication comes before subtraction

$$15 - (3 \times 2) \neq 24$$

$$15 - 6 \neq 24$$

(3 marks)

11. (a) Work out $4 \times 5 - 8$

$$20 - 8$$

$$\dots\dots\dots 12$$

(1)

(b) Work out $18 + 2 \times 3$

$$18 + 6$$

$$\dots\dots\dots 24$$

(1)

(c) Work out $7 + 3 \times 5$

$$7 + 15$$

$$\dots\dots\dots 22$$

(1)

(d) Work out $13 - 3 \times 4 + 2$

$$13 - 12 + 2$$

$$\dots\dots\dots 3$$

(1)

(e) Work out $(4 + 3) \times 7$

$$7 \times 7$$

$$\dots\dots\dots 49$$

(1)

(e) Work out $20 - (4 + 10)$

$$20 - 14$$

$$\dots\dots\dots 6$$

(1)

(6 marks)

12. (a) Write down the value of $\sqrt{81}$

$$\frac{9}{\dots\dots\dots}$$

(1)

- (b) Work out the value of $5^2 + 2^3$

$$25 + 8$$

$$\frac{33}{\dots\dots\dots}$$

(2)

(3 marks)

13. (a) Work out the value of $(9 + 2) \times 6 - 3$

$$11 \times 6 - 3$$

$$66 - 3$$

$$\frac{63}{\dots\dots\dots}$$

(1)

- (b) Add brackets () to make each statement correct.
You may use more than one pair of brackets in each statement.

(i) $9 + 2 \times 6 - 3 = 18$

$$9 + 12 - 3 = 18$$

(ii) $9 + 2 \times (6 - 3) = 15$

(2)
(3 marks)