



Foundation / Higher Tier

Multiplying and Dividing Integers

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Information

- The marks for **each** question are shown in brackets- *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
 - Keep an eye on the time.
 - Try to answer every question.
 - Check your answers if you have time at the end.
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1. (a) Calculate 23×4

$$\begin{array}{r} 23 \\ \times 4 \\ \hline 92 \end{array}$$

92

(2)

(b) Calculate 17×6

$$\begin{array}{r} 17 \\ \times 6 \\ \hline 102 \end{array}$$

102

(2)

(c) Calculate 34×12

$$\begin{array}{r} 34 \\ \times 12 \\ \hline 68 \\ 340 \\ \hline 408 \end{array}$$

408

(2)

(d) Calculate 58×14

$$\begin{array}{r} 3 \\ 58 \\ \times 14 \\ \hline 232 \\ 580 \\ \hline 812 \end{array}$$

812

(2)

(Total for Question 1 is 8 marks)

2. (a) Calculate 124×3

$$\begin{array}{r} 124 \\ 3 \\ \hline 372 \end{array}$$

$$\begin{array}{r} 372 \\ \hline \end{array}$$

(2)

(b) Calculate 123×14

$$\begin{array}{r} 123 \\ 14 \\ \hline 492 \\ 1230 \\ \hline 1722 \end{array}$$

$$\begin{array}{r} 1722 \\ \hline \end{array}$$

(2)

(c) Calculate 58×12

$$\begin{array}{r} 58 \\ 12 \\ \hline 116 \\ 580 \\ \hline 696 \end{array}$$

$$\begin{array}{r} 696 \\ \hline \end{array}$$

(2)

(d) Calculate 2451×23

$$\begin{array}{r} 2451 \\ \times 23 \\ \hline 7353 \\ 49020 \\ \hline 56373 \end{array}$$

$$\begin{array}{r} 56373 \\ \hline \end{array}$$

(2)

(Total for Question 2 is 8 marks)

3. (a) Calculate $91 \div 7$

$$\begin{array}{r} 13 \\ 7 \overline{)91} \\ \underline{7} \\ 21 \\ \underline{21} \\ 0 \end{array}$$

(b) Calculate $105 \div 5$

$$\begin{array}{r} 21 \\ 5 \overline{)105} \\ \underline{10} \\ 5 \\ \underline{5} \\ 0 \end{array}$$

$$\begin{array}{r} 13 \\ \hline (2) \end{array}$$

(c) Calculate $204 \div 6$

$$\begin{array}{r} 34 \\ 6 \overline{)204} \\ \underline{18} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

$$\begin{array}{r} 21 \\ \hline (2) \end{array}$$

(d) Calculate $924 \div 7$

$$\begin{array}{r} 132 \\ 7 \overline{)924} \\ \underline{7} \\ 22 \\ \underline{21} \\ 14 \\ \underline{14} \\ 0 \end{array}$$

$$\begin{array}{r} 34 \\ \hline (2) \end{array}$$

$$\begin{array}{r} 132 \\ \hline (2) \end{array}$$

(Total for Question 3 is 8 marks)

4 (a) Calculate $264 \div 12$

$$\begin{array}{r} 22 \\ 12 \overline{) 264} \\ \underline{24} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

(b) Calculate $2376 \div 12$

$$\begin{array}{r} 198 \\ 12 \overline{) 2376} \\ \underline{24} \\ 76 \\ \underline{72} \\ 46 \\ \underline{48} \\ 6 \\ \underline{6} \\ 0 \end{array}$$

(c) Calculate $1320 \div 15$

$$\begin{array}{r} 88 \\ 15 \overline{) 1320} \\ \underline{120} \\ 120 \\ \underline{120} \\ 0 \end{array}$$

(d) Calculate $1386 \div 11$

$$\begin{array}{r} 126 \\ 11 \overline{) 1386} \\ \underline{11} \\ 28 \\ \underline{22} \\ 66 \\ \underline{66} \\ 0 \end{array}$$

$$\begin{array}{r} 22 \\ \hline (2) \end{array}$$

$$\begin{array}{r} 198 \\ \hline (2) \end{array}$$

$$\begin{array}{r} 88 \\ \hline (2) \end{array}$$

$$\begin{array}{r} 126 \\ \hline (2) \end{array}$$

(Total for Question 4 is 8 marks)

5. (a) Calculate $50 \div 6$

$$\begin{array}{r} 8.33 \\ 6 \overline{) 50.00} \\ \underline{48} \\ 20 \\ \underline{18} \\ 20 \\ \underline{18} \\ 20 \end{array}$$

$$8.\dot{3}$$

(2)

(b) Calculate $405 \div 12$

$$\begin{array}{r} 33.75 \\ 12 \overline{) 405.00} \\ \underline{36} \\ 45 \\ \underline{36} \\ 90 \\ \underline{84} \\ 60 \\ \underline{60} \\ 0 \end{array}$$

$$33.75$$

(2)

(c) Calculate $702 \div 12$

$$\begin{array}{r} 58.5 \\ 12 \overline{) 702.0} \\ \underline{60} \\ 102 \\ \underline{96} \\ 60 \\ \underline{60} \\ 0 \end{array}$$

$$58.5$$

(2)

(d) Calculate $1050 \div 12$

$$\begin{array}{r} 87.5 \\ 12 \overline{) 1050.0} \\ \underline{96} \\ 90 \\ \underline{84} \\ 60 \\ \underline{60} \\ 0 \end{array}$$

$$87.5$$

(2)

(Total for Question 5 is 8 marks)
