1.5 Four Operations with Integers: 1-hour Pack

Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 58 x 71.

(3)

2 Work out 6.941 ÷ 10.

(1)

3 Work out 401 x 14.

(3)

4 Work out 7 + 9 x 3.

(2)

5 Given that 34 x 18 = 612, work out 3.4 x 1.8.

(2)

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6 Work out 3.971 ÷ 100.

(1)

7 Work out 14 - (2 - 4) x 3.

(3)

8 Tom buys 13 notebooks at £3 each and 6 pens at £2 each. Work out the total cost.

(3)

9 Priya buys 13 notebooks at £9.10 each and 2 pens at £2 each. Work out the total cost.

(3)

10 Work out 1674 ÷ 12. Give your answer as a whole number and a remainder.

(3)

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11 Given that 31 x 15 = 465, work out 0.31 x 0.15.

(2)

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12 Work out 380.9 x 100.

(1)

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13 7 friends each pay £3.30 towards a meal. They share the total equally among 5 tables. How much is spent per table?

(3)

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14 Work out 7308 ÷ 28.

(3)

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15 Work out 71.83 ÷ 10.

(1)

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16 Use long multiplication to calculate each product.

(a) 236 x 14 **(3)**

(b) 417 x 23 **(3)**

17 Work out 610 x 77.

(3)

18 Given that 24 x 27 = 648, work out 2.4 x 0.27.

(2)

19 Given that 15 x 28 = 420, work out 1.5 x 0.28.

(2)

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Mark scheme · 1.5 Four Operations with Integers: 1-hour Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

one correct partial product, eg 58 x 1 = 58 or 58 x 70 = 4060	M1
both partial products attempted and added	M1
4118 cao	A1

Answer: **4118**

Question 2

0.6941 cao	B1

Answer: **0.6941**

Question 3

one correct partial product, eg 401 x 4 = 1604 or 401 x 10 = 4010	M1
both partial products attempted and added	M1
5614 cao	A1

Answer: **5614**

Question 4

correct first operation applied by the order of operations (brackets, indices, then x and ÷)	M1
34 cao	A1

Answer: **34**

Question 5

uses 612 with the decimal places counted (1 + 1 = 2 in total)	M1
6.12 cao	A1

Answer: **6.12**

Question 6

0.03971 cao	B1

Answer: **0.03971**

Question 7

correct first operation applied by the order of operations (brackets, indices, then x and ÷)	M1
second correct stage of working	M1
20 cao	A1

Answer: **20**

Question 8

13 x £3 = £39 or 6 x 2 = 12	M1
adds the two costs	M1
£51 cao	A1

Answer: **£51**

Question 9

13 x £9.10 = £118.30 or 2 x 2 = 4	M1
adds the two costs	M1
£122.30 cao	A1

Answer: **£122.30**

Question 10

correct start to the division	M1
quotient 139 identified or 12 x 139 = 1668 seen	M1
139 remainder 6 cao	A1

Answer: **139 remainder 6**

Question 11

uses 465 with the decimal places counted (2 + 2 = 4 in total)	M1
0.0465 cao	A1

Answer: **0.0465**

Question 12

38090 cao	B1

Answer: **38090**

Question 13

7 x £3.30 = £23.10	M1
£23.10 ÷ 5 attempted	M1
£4.62 cao	A1

Answer: **£4.62**

Question 14

correct start to the division, eg 28 x 260 = 7280 or table of multiples	M1
complete correct method with at most one slip	M1
261 cao	A1

Answer: **261**

Question 15

7.183 cao	B1

Answer: **7.183**

Question 16

(a) correct partial product 236 x 10 = 2360 shown or equivalent method oe	M1
(a) correct partial product 236 x 4 = 944 shown or equivalent method oe	M1
(a) 3304 cao	A1

(a) Answer: **3304**

(b) correct partial product 417 x 20 = 8340 shown or equivalent method oe	M1
(b) correct partial product 417 x 3 = 1251 shown or equivalent method oe	M1
(b) 9591 cao	A1

(b) Answer: **9591**

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Question 17

one correct partial product, eg 610 x 7 = 4270 or 610 x 70 = 42700	**M1**
both partial products attempted and added	**M1**
46970 cao	**A1**

Answer: **46970**

Question 18

uses 648 with the decimal places counted (1 + 2 = 3 in total)	**M1**
0.648 cao	**A1**

Answer: **0.648**

Question 19

uses 420 with the decimal places counted (1 + 2 = 3 in total)	**M1**
0.42 cao	**A1**

Answer: **0.42**

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