1.5 Four Operations with Integers: Test Pack

Calculators not allowed · about 55 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out each addition using column method if needed.

(a) 214 + 389 **(1)**

(b) 1 006 + 879 **(1)**

(c) 48 + 127 **(1)**

(d) 5 000 + 3 207 **(1)**

2 Work out 728 x 44.

(3)

3 Work out $9 + 6^2 \div 2$.

(3)

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4 Work out 905 x 32.

(3)

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5 Isla buys 16 packs of stickers at £2.30 each and pays with a £200 note. Work out the change.

(3)

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6 Work out 283.2 ÷ 10.

(1)

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7 Given that 40 x 44 = 1760, work out 0.4 x 4.4.

(2)

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8 Work out 1.91 + 5.38.

(2)

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9 Work out 95 x 50.

(3)

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10 Given that 49 x 29 = 1421, work out 142.1 ÷ 2.9.

(2)

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11 Given that 47 x 35 = 1645, work out 16.45 ÷ 0.35.

(2)

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12 Given that 42 x 27 = 1134, work out 0.42 x 0.27.

(2)

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13 Work out 615 x 55.

(3)

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14 Work out 347 + 289.

(1)

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15 The temperature at midnight was -6°C. By 9am the temperature had risen by 11°C. By 3pm it had fallen by 4°C from the 9am reading. Work out the temperature at 3pm.

(3)

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16 A number is multiplied by 6, then 23 is subtracted from the result. The final answer is 91. Work out the original number.

(3)

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17 Work out 5,003 - 2,748.

(2)

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18 Use long multiplication to calculate 143 x 26.

(2)

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Mark scheme · 1.5 Four Operations with Integers: Test Pack

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

Question 1

(a) 603 cao	B1
(a) Answer: **603**	
(b) 1885 cao	B1
(b) Answer: **1885**	
(c) 175 cao	B1
(c) Answer: **175**	
(d) 8207 cao	B1
(d) Answer: **8207**	

Question 2

one correct partial product, eg 728 x 4 = 2912 or 728 x 40 = 29120	M1
both partial products attempted and added	M1
32032 cao	A1
Answer: **32032**	

Question 3

correct first operation applied by the order of operations (brackets, indices, then x and ÷)	M1
second correct stage of working	M1
27 cao	A1
Answer: **27**	

Question 4

one correct partial product, eg 905 x 2 = 1810 or 905 x 30 = 27150	M1
both partial products attempted and added	M1
28960 cao	A1
Answer: **28960**	

Question 5

16 x £2.30 attempted	M1
£200 - total	M1
£163.20 cao	A1
Answer: **£163.20**	

Question 6

28.32 cao	B1
Answer: **28.32**	

Question 7

uses 1760 with the decimal places counted (2 + 1 = 3 in total)	M1
1.76 cao	A1
Answer: **1.76**	

Question 8

digits lined up by place value with decimal points aligned (or a correct partial result)	M1
7.29 cao	A1
Answer: **7.29**	

Question 9

one correct partial product, eg 95 x 0 or 95 x 50 = 4750	M1
both partial products attempted and added	M1
4750 cao	A1
Answer: **4750**	

Question 10

scales both numbers to whole numbers, eg 1421 ÷ 29 = 49 seen	M1
49 cao	A1
Answer: **49**	

Question 11

scales both numbers to whole numbers, eg 1645 ÷ 35 = 47 seen	M1
47 cao	A1
Answer: **47**	

Question 12

uses 1134 with the decimal places counted (2 + 2 = 4 in total)	M1
0.1134 cao	A1
Answer: **0.1134**	

Question 13

one correct partial product, eg 615 x 5 = 3075 or 615 x 50 = 30750	M1
both partial products attempted and added	M1
33825 cao	A1
Answer: **33825**	

Question 14

636 cao	B1
Answer: **636**	

Question 15

-6 + 11 = 5 oe	M1
5 - 4 oe	M1
1 (°C) cao	A1
Answer: **1°C**	

Question 16

reverses the subtraction: 91 + 23 = 114 oe	M1
reverses the multiplication: 114 divide 6 oe	M1
19 cao	A1
Answer: **19**	

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Question 17

correct column subtraction method shown, with at least one correct borrow	**M1**
2255 cao	**A1**

Answer: **2255**

Question 18

correct partial product shown, e.g. 143 x 20 = 2860 or 143 x 6 = 858	**M1**
3718 cao	**A1**

Answer: **3718**

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