1.5 Four Operations with Integers: 2-hour Pack

Calculators not allowed · about 120 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 2889 ÷ 20. Give your answer as a whole number and a remainder.

(3)

2 Work out 593.4 ÷ 100.

(1)

3 Work out 27.02 + 91.6.

(2)

4 Work out 5 x 9 - 8 x 7.

(3)

5 Given that 44 x 12 = 528, work out 52.8 ÷ 1.2.

(2)

© Revision Library | revisionlibrary.co.uk

6 Work out each division. Give an exact whole-number quotient; if there is a remainder, state it.

(a) 624 ÷ 8 **(1)**

.....

(b) 55 ÷ 6 **(1)**

.....

(c) 2 401 ÷ 7 **(1)**

.....

---

7 Priya buys 12 notebooks at £7.60 each and 3 pens at £2 each. Work out the total cost.

(3)

---

8 Work out 69.52 + 95.4.

(2)

---

9 Work out 5643 ÷ 33.

(3)

© Revision Library | revisionlibrary.co.uk

10 Work out 495 x 63.

(3)

11 Work out 67.0 ÷ 10.

(1)

12 Work out 507 x 29.

(3)

13 Work out 3828 ÷ 22.

(3)

14 Work out 68.6 - 48.6.

(2)

© Revision Library | revisionlibrary.co.uk

15 Work out $7^2 + 2 \times 5$.

(3)

16 Divide and give an answer as a mixed number if needed.

(a) 85 ÷ 12 **(2)**

.....

17 Work out 2825 ÷ 25.

(3)

18 Work out 264.7 ÷ 10.

(1)

19 Given that 19 x 16 = 304, work out 0.19 x 1.6.

(2)

20 Work out 2242 ÷ 22. Give your answer as a whole number and a remainder.

(3)

© Revision Library | revisionlibrary.co.uk

21 Work out 9.54 + 55.1.

(2)

22 Work out 453 x 26.

(3)

23 Work out 26.4 - 17.

(2)

24 Given that 19 x 17 = 323, work out 3.23 ÷ 1.7.

(2)

25 A box holds 9 trays and each tray holds 24 eggs. How many eggs are in 2 boxes?

(3)

26 Work out 55.53 + 0.78.

(2)

© Revision Library | revisionlibrary.co.uk

27 Work out 8 + 3 x 3.

(2)

---

28 Work out 9.97 ÷ 10.

(1)

---

29 10 friends each pay £8.40 towards a meal. They share the total equally among 2 tables. How much is spent per table?

(3)

---

30 Work out 95 divide by 6, giving your answer as a mixed number.

(2)

---

31 Work out 8 + 3 x 6, showing the correct order of operations.

(2)

---

32 Work out 1,000 - 456.

(1)

© Revision Library | revisionlibrary.co.uk

33 Work out 24 x 5.

(1)

34 Work out (12 - 5) x 4, showing the correct order of operations.

(2)

35 A shop had 480 items in stock. During a sale it sold 275 items, then received a new delivery of 150 items. Work out how many items are in stock now.

(3)

36 A minibus can carry 16 passengers. A school needs to transport 138 pupils on a trip, so that every pupil has a seat. Work out how many minibuses are needed.

(3)

37 Work out 4 x (-7) + 15, showing your working and the correct order of operations.

(3)

© Revision Library | revisionlibrary.co.uk

38 A submarine is at a depth of 85 metres below sea level. It rises by 32 metres, then dives a further 47 metres. Work out its final depth below sea level.

(3)

---

39 Work out 512 - 178.

(1)

---

40 Work out 45 x 7.

(1)

---

41 Work out 288 divide by 8.

(1)

---

42 Work out 2,456 + 3,879.

(2)

© Revision Library | revisionlibrary.co.uk

Mark scheme · 1.5 Four Operations with Integers: 2-hour Pack

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

Question 1

correct start to the division	M1
quotient 144 identified or 20 x 144 = 2880 seen	M1
144 remainder 9 cao	A1

Answer: **144 remainder 9**

Question 2

5.934 cao	B1

Answer: **5.934**

Question 3

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

Answer: **118.62**

Question 4

correct first operation applied by the order of operations (brackets, indices, then x and ÷)	M1
second correct stage of working	M1
-11 cao	A1

Answer: **-11**

Question 5

scales both numbers to whole numbers, eg 528 ÷ 12 = 44 seen	M1
44 cao	A1

Answer: **44**

Question 6

(a) 78 cao	B1

(a) Answer: **78**

(b) 9 remainder 1 cao	B1

(b) Answer: **9 r 1**

(c) 343 cao	B1

(c) Answer: **343**

Question 7

12 x £7.60 = £91.20 or 3 x 2 = 6	M1
adds the two costs	M1
£97.20 cao	A1

Answer: **£97.20**

Question 8

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

Answer: **164.92**

Question 9

correct start to the division, eg 33 x 170 = 5610 or table of multiples	M1
complete correct method with at most one slip	M1
171 cao	A1

Answer: **171**

Question 10

one correct partial product, eg 495 x 3 = 1485 or 495 x 60 = 29700	M1
both partial products attempted and added	M1
31185 cao	A1

Answer: **31185**

Question 11

6.7 cao	B1

Answer: **6.7**

Question 12

one correct partial product, eg 507 x 9 = 4563 or 507 x 20 = 10140	M1
both partial products attempted and added	M1
14703 cao	A1

Answer: **14703**

Question 13

correct start to the division, eg 22 x 170 = 3740 or table of multiples	M1
complete correct method with at most one slip	M1
174 cao	A1

Answer: **174**

Question 14

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

Answer: **20**

Question 15

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

Answer: **59**

Question 16

(a) correct whole-number quotient and remainder found or method shown	M1
(a) 7 1/12 cao	A1

(a) Answer: **7 1/12**

© Revision Library | revisionlibrary.co.uk

Question 17

correct start to the division, eg 25 x 110 = 2750 or table of multiples	M1
complete correct method with at most one slip	M1
113 cao	A1

Answer: **113**

Question 18

26.47 cao	B1

Answer: **26.47**

Question 19

uses 304 with the decimal places counted (2 + 1 = 3 in total)	M1
0.304 cao	A1

Answer: **0.304**

Question 20

correct start to the division	M1
quotient 101 identified or 22 x 101 = 2222 seen	M1
101 remainder 20 cao	A1

Answer: **101 remainder 20**

Question 21

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

Answer: **64.64**

Question 22

one correct partial product, eg 453 x 6 = 2718 or 453 x 20 = 9060	M1
both partial products attempted and added	M1
11778 cao	A1

Answer: **11778**

Question 23

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

Answer: **9.4**

Question 24

scales both numbers to whole numbers, eg 323 ÷ 17 = 19 seen	M1
1.9 cao	A1

Answer: **1.9**

Question 25

9 x 24 = 216	M1
216 x 2	M1
432 cao	A1

Answer: **432**

Question 26

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

Answer: **56.31**

Question 27

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

Answer: **17**

Question 28

0.997 cao	B1

Answer: **0.997**

Question 29

10 x £8.40 = £84	M1
£84 ÷ 2 attempted	M1
£42 cao	A1

Answer: **£42**

Question 30

correct whole-number quotient and remainder found: 15 remainder 5	M1
15 5/6 cao	A1

Answer: **15 5/6**

Question 31

multiplies before adding: 3 x 6 = 18 shown	M1
26 cao	A1

Answer: **26**

Question 32

544 cao	B1

Answer: **544**

Question 33

120 cao	B1

Answer: **120**

Question 34

works out the bracket first: 12 - 5 = 7 shown	M1
28 cao	A1

Answer: **28**

Question 35

480 - 275 = 205 oe	M1
205 + 150 oe	M1
355 cao	A1

Answer: **355 items**

Question 36

138 divide 16 = 8 remainder 10 shown	M1
recognises that the remaining 10 pupils need an extra minibus	M1
9 (minibuses) cao	A1

Answer: **9 minibuses**

Question 37

multiplies first: 4 x (-7) = -28 shown	M1
-28 + 15 oe	M1
-13 cao	A1

Answer: **-13**

© Revision Library | revisionlibrary.co.uk

Question 38

-85 + 32 = -53 oe	**M1**
-53 - 47 oe	**M1**
100 metres below sea level cao	**A1**

Answer: **100 metres below sea level**

Question 39

334 cao	**B1**

Answer: **334**

Question 40

315 cao	**B1**

Answer: **315**

Question 41

36 cao	**B1**

Answer: **36**

Question 42

correct column addition method shown, with at least one correct carry	**M1**
6335 cao	**A1**

Answer: **6335**

© Revision Library | revisionlibrary.co.uk