3.5 Multiplying and Dividing by 10, 100 and 1000: 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 9,030 x 10 =

Answer: ___

(1)

2 99.58 divided by 10 =

Answer: ___

(1)

3 64.36 divided by 100 =

Answer: ___

(1)

4 Convert 590 mm to cm.

Answer: ___ cm

(1)

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5 Sofia multiplies 5.4 by 1000 and says the digits move three places to the left. Explain why this is correct and show the answer.

(3)

6 208 x 1,000 =

Answer: ___

(1)

7 Gift bags cost £8.48 each. Dev buys 3 and pays with £40.

How much change does Dev get?

Answer: £___

(2)

8 Plants cost £6.30 each. Quinn buys 12 and pays with £80.

How much change does Quinn get?

Answer: £___

(2)

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9 91 divided by ___ = 0.091

Answer: ___

(1)

---

10 Convert 6,000 m to km.

Answer: ___ km

(1)

---

11 92 x ___ = 920

Answer: ___

(1)

---

12 Convert 7 litres to ml.

Answer: ___ ml

(1)

---

13 25.82 divided by 10 =

Answer: ___

(1)

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14 12 divided by ___ = 1.2

Answer: ___

(1)

---

15 49 divided by ___ = 0.49

Answer: ___

(1)

---

16 66.42 x 1,000 =

Answer: ___

(1)

---

17 What is 7 divided by 10 written as a decimal?

(1)

---

18 Use the fact that 15 times 100 = 1,500 to work out each answer.

(a) 15 times 1,000 **(1)**

(b) 1.5 times 100 **(1)**

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19 A box of 10 pens costs £4.20.

(a) How much does one pen cost? **(1)**

(b) How much do 100 pens cost? **(1)**

---

20 Bilal thinks of a number. He multiplies the number by 1,000. Then he divides his answer by 100. His final answer is 7,300. What number did Bilal think of?

(2)

---

21 Tia says: '6.5 times 100 is bigger than 65 times 10, because 100 is bigger than 10.' Is Tia correct? Explain your answer.

(2)

---

22 70 x 41 =

Answer: ___

(1)

---

23 Multiply 3.2 by 10. Write your answer as a decimal.

(1)

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24 Gift bags cost £3.23 each. Lily buys 4 and pays with £20.

How much change does Lily get?

Answer: £___

(2)

---

25 Books cost £2.81 each. George buys 6.

How much does George pay?

Answer: £___

(2)

---

26 Books cost £5.76 each. Hassan buys 9 and pays with £60.

How much change does Hassan get?

Answer: £___

(2)

---

27 63 x 94 =

Answer: ___

(1)

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28 387 divided by 10 =

Answer: ___

(1)

---

29 28 divided by ___ = 0.28

Answer: ___

(1)

---

30 What is 10 more than 6,878?

Answer: ___

(1)

---

31 94 divided by 100 =

Answer: ___

(1)

---

32 Divide 2,400 by 100. Write the answer.

(1)

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33 Gift bags cost £6.78 each. Ben buys 9.

How much does Ben pay?

Answer: £___

(1)

---

34 Write £8.78 in pence.

Answer: ___ p

(1)

---

35 96 x 72 =

Answer: ___

(1)

---

36 Convert 3 cm to mm.

Answer: ___ mm

(1)

---

37 98 x ___ = 98000

Answer: ___

(1)

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38 Convert 33 m to cm.

Answer: ___ cm

(1)

---

39 What is 10 more than 5,483?

Answer: ___

(1)

---

40 717 x 1,000 =

Answer: ___

(1)

---

41 30 x 62 =

Answer: ___

(1)

---

42 566.8 divided by 100 =

Answer: ___

(1)

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43 94 divided by ___ = 0.094

Answer: ___

(1)

---

44 Convert 89.1 m to mm.

Answer: ___ mm

(1)

---

45 80 x 58 =

Answer: ___

(1)

---

46 12.45 divided by 10 =

Answer: ___

(1)

---

47 500.9 x 10 =

Answer: ___

(1)

---

48 Write 5,600 multiplied by 100 as a number.

(1)

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49 22 x 32 =

Answer: ___

(1)

---

50 15 x 13 =

Answer: ___

(1)

---

51 717.2 x 100 =

Answer: ___

(1)

---

52 253 x 1,000 =

Answer: ___

(1)

---

53 8,549 divided by 100 =

Answer: ___

(1)

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54 90.54 divided by 1,000 =

Answer: ___

(1)

---

55 Convert 2.5 km to m.

Answer: ___ m

(1)

---

56 317.9 divided by 10 =

Answer: ___

(1)

---

57 A pencil costs £0.45. How much do 1,000 pencils cost?

(2)

---

58 21 divided by ___ = 0.021

Answer: ___

(1)

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59 54 x 71 =

Answer: ___

(1)

---

60 10 x 16 =

Answer: ___

(1)

---

61 80 x 79 =

Answer: ___

(1)

---

62 39 divided by ___ = 3.9

Answer: ___

(1)

---

63 Notebooks cost £4.99 each. Nia buys 11 and pays with £60.

How much change does Nia get?

Answer: £___

(2)

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64 66 x ___ = 6600

Answer: ___

(1)

---

65 Divide 0.06 by 10. Write the answer as a decimal.

(1)

---

66 Tickets cost £1.77 each. Ben buys 4.

How much does Ben pay?

Answer: £___

(1)

---

67 3 divided by ___ = 0.03

Answer: ___

(1)

---

68 72.6 divided by 100 =

Answer: ___

(1)

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69 84 x 43 =

Answer: ___

(1)

---

70 146.1 x 100 =

Answer: ___

(1)

---

71 Gift bags cost £7.73 each. Jade buys 8 and pays with £80.

How much change does Jade get?

Answer: £___

(2)

---

72 Books cost £5.56 each. Yusuf buys 8 and pays with £60.

How much change does Yusuf get?

Answer: £___

(2)

---

73 88 x 72 =

Answer: ___

(1)

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74 212.3 x 10 =

Answer: ___

(1)

---

75 103.6 x 100 =

Answer: ___

(1)

---

76 89 divided by ___ = 0.089

Answer: ___

(1)

---

77 What is 10 less than 9,893?

Answer: ___

(1)

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78 698.1 x 10 =

Answer: ___

(1)

---

79 Toys cost £3.84 each. Mia buys 8.

How much does Mia pay?

Answer: £___

(2)

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Mark scheme · 3.5 Multiplying and Dividing by 10, 100 and 1000: 2-hour Pack

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

Question 1

90,300 cao — **B1**

Answer: **90,300**

Question 2

9.958 cao — **B1**

Answer: **9.958**

Question 3

0.6436 cao — **B1**

Answer: **0.6436**

Question 4

59 cm cao — **B1**

Answer: **59 cm**

Question 5

explain that multiplying by 10 moves digits one place left and 1000 is 10 x 10 x 10 so three places — **M1**

reference to decimal point shifting right 3 places or equivalent — **M1**

5.4 x 1000 = 5,400 cao — **A1**

Answer: **5,400**

Question 6

208,000 cao — **B1**

Answer: **208,000**

Question 7

8.48 x 3 = 25.44 seen — **M1**

£14.56 cao — **A1**

Answer: **£14.56**

Question 8

6.30 x 12 = 75.60 seen — **M1**

£4.40 cao — **A1**

Answer: **£4.40**

Question 9

1,000 cao — **B1**

Answer: **1,000**

Question 10

6 km cao — **B1**

Answer: **6 km**

Question 11

10 cao — **B1**

Answer: **10**

Question 12

7,000 ml cao — **B1**

Answer: **7,000 ml**

Question 13

2.582 cao — **B1**

Answer: **2.582**

Question 14

10 cao — **B1**

Answer: **10**

Question 15

100 cao — **B1**

Answer: **100**

Question 16

66,420 cao — **B1**

Answer: **66,420**

Question 17

0.7 cao — **B1**

Answer: **0.7**

Question 18

(a) 15,000 cao — **B1**

(a) Answer: **15,000**

(b) 150 cao — **B1**

(b) Answer: **150**

Question 19

(a) 42p cao (accept £0.42) — **B1**

(a) Answer: **42p**

(b) £42 cao (accept £42.00) — **B1**

(b) Answer: **£42**

Question 20

uses inverse operations in the right order (7,300 x 100 = 730,000, then 730,000 / 1,000), or sees that the two steps together multiply by 10 (7,300 / 10) — **M1**

730 cao — **A1**

Answer: **730**

Question 21

650 seen for 6.5 x 100 or for 65 x 10 — **M1**

No, Tia is not correct, because both calculations give the answer 650 (the answers are equal) — **A1**

Answer: **No, both answers are 650**

Question 22

2870 cao — **B1**

Answer: **2870**

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Question 23

32.0 or 32 cao **B1**

Answer: **32**

Question 24

3.23 x 4 = 12.92 seen **M1**

£7.08 cao **A1**

Answer: **£7.08**

Question 25

2.81 x 6 method seen **M1**

£16.86 cao **A1**

Answer: **£16.86**

Question 26

5.76 x 9 = 51.84 seen **M1**

£8.16 cao **A1**

Answer: **£8.16**

Question 27

5922 cao **B1**

Answer: **5922**

Question 28

38.7 cao **B1**

Answer: **38.7**

Question 29

100 cao **B1**

Answer: **100**

Question 30

6,888 cao **B1**

Answer: **6,888**

Question 31

0.94 cao **B1**

Answer: **0.94**

Question 32

24 cao **B1**

Answer: **24**

Question 33

£61.02 cao **B1**

Answer: **£61.02**

Question 34

878p cao **B1**

Answer: **878p**

Question 35

6912 cao **B1**

Answer: **6912**

Question 36

30 mm cao **B1**

Answer: **30 mm**

Question 37

1,000 cao **B1**

Answer: **1,000**

Question 38

3,300 cm cao **B1**

Answer: **3,300 cm**

Question 39

5,493 cao **B1**

Answer: **5,493**

Question 40

717,000 cao **B1**

Answer: **717,000**

Question 41

1860 cao **B1**

Answer: **1860**

Question 42

5.668 cao **B1**

Answer: **5.668**

Question 43

1,000 cao **B1**

Answer: **1,000**

Question 44

89,100 mm cao **B1**

Answer: **89,100 mm**

Question 45

4640 cao **B1**

Answer: **4640**

Question 46

1.245 cao **B1**

Answer: **1.245**

Question 47

5,009 cao **B1**

Answer: **5,009**

Question 48

560,000 cao **B1**

Answer: **560000**

Question 49

704 cao **B1**

Answer: **704**

Question 50

195 cao **B1**

Answer: **195**

Question 51

71,720 cao **B1**

Answer: **71,720**

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Question 52

253,000 cao **B1**

Answer: **253,000**

Question 53

85.49 cao **B1**

Answer: **85.49**

Question 54

0.09054 cao **B1**

Answer: **0.09054**

Question 55

2,500 m cao **B1**

Answer: **2,500 m**

Question 56

31.79 cao **B1**

Answer: **31.79**

Question 57

multiply 0.45 by 1000 or shift decimal right 3 places **M1**

450.0 or £450 cao **A1**

Answer: **450**

Question 58

1,000 cao **B1**

Answer: **1,000**

Question 59

3834 cao **B1**

Answer: **3834**

Question 60

160 cao **B1**

Answer: **160**

Question 61

6320 cao **B1**

Answer: **6320**

Question 62

10 cao **B1**

Answer: **10**

Question 63

4.99 x 11 = 54.89 seen **M1**

£5.11 cao **A1**

Answer: **£5.11**

Question 64

100 cao **B1**

Answer: **100**

Question 65

0.006 cao **B1**

Answer: **0.006**

Question 66

£7.08 cao **B1**

Answer: **£7.08**

Question 67

100 cao **B1**

Answer: **100**

Question 68

0.726 cao **B1**

Answer: **0.726**

Question 69

3612 cao **B1**

Answer: **3612**

Question 70

14,610 cao **B1**

Answer: **14,610**

Question 71

7.73 x 8 = 61.84 seen **M1**

£18.16 cao **A1**

Answer: **£18.16**

Question 72

5.56 x 8 = 44.48 seen **M1**

£15.52 cao **A1**

Answer: **£15.52**

Question 73

6336 cao **B1**

Answer: **6336**

Question 74

2,123 cao **B1**

Answer: **2,123**

Question 75

10,360 cao **B1**

Answer: **10,360**

Question 76

1,000 cao **B1**

Answer: **1,000**

Question 77

9,883 cao **B1**

Answer: **9,883**

Question 78

6,981 cao **B1**

Answer: **6,981**

Question 79

3.84 x 8 method seen **M1**

£30.72 cao **A1**

Answer: **£30.72**

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