4.8 Decimals and Percentages (Year 5): 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Each lap is 1.7 km. Kiran runs 5 laps. How far does Kiran run?

Answer: ___ km

(2)

---

2 Increase 64 m by 30%.

Answer: ___

(2)

---

3 Write these in order, smallest first.

1/2, 0.4, 0.2

Answer: ___

(2)

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4 5,321 x 100 =

Answer: ___

(1)

---

5 What is the value of the digit 3 in 9.435?

Answer: ___

(1)

---

6 Zara scored 19 out of 100 in a test.

Write this score as a percentage.

Answer: ___ %

(1)

---

7 Work out 75% of £20.

Answer: ___

(2)

---

8 Write these in order, smallest first.

13/20, 25%, 0.7

Answer: ___

(2)

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9 Write 7.304 to the nearest hundredth.

(1)

---

10 Write these in order, smallest first.

9/20, 25%, 0.4

Answer: ___

(2)

---

11 Round 76.901 to 2 decimal places.

Answer: ___

(1)

---

12 52.95 - 6.90 =

Answer: ___

(1)

---

13 64.03 divided by 10 =

Answer: ___

(1)

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14 A comic costs £16.21 and a sticker costs £17.77.

How much more does the dearer item cost?

Answer: £___

(2)

---

15 Round 28.673 to 2 decimal places.

Answer: ___

(1)

---

16 Write these in order, smallest first.

30%, 0.65, 0.4

Answer: ___

(1)

---

17 Write these decimals in order, starting with the largest.

0.760, 1.077, 1.472, 1.491

Answer: ___

(1)

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18 Write these in order, smallest first.

25%, 40%, 0.45

Answer: ___

(2)

---

19 Write 3/4 as a decimal.

Answer: ___

(2)

---

20 What is the value of the digit 8 in 9.481?

Answer: ___

(1)

---

21 Each lap is 4.3 km. Lily runs 5 laps. How far does Lily run?

Answer: ___ km

(2)

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22 Write 0.9 as a percentage.

Answer: ___ %

(2)

---

23 Round 896.95 to 1 decimal place.

Answer: ___

(1)

---

24 26.33 + 6.64 =

Answer: ___

(1)

---

25 Write 25% as a decimal.

(1)

---

26 A plank is 1.3 metres. How many metres are there in 8 planks?

Answer: ___ metres

(1)

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27 A cake costs £2.14 and a bun costs £3.47.

How much more does the dearer item cost?

Answer: £___

(2)

---

28 Each lap is 4.5 km. Mia runs 4 laps. How far does Mia run?

Answer: ___ km

(2)

---

29 Each lap is 1.3 km. Oscar runs 3 laps. How far does Oscar run?

Answer: ___ km

(1)

---

30 Write these decimals in order, starting with the largest.

1.558, 0.869, 0.698, 1.541

Answer: ___

(1)

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31 Decrease 76 kg by 10%.

Answer: ___

(3)

---

32 76.36 - 5.44 =

Answer: ___

(1)

---

33 Round 57.075 to the nearest whole number.

Answer: ___

(1)

---

34 What is the value of the digit 6 in 5.634?

Answer: ___

(1)

---

35 A plank is 4.6 metres. How many metres are there in 8 planks?

Answer: ___ metres

(2)

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36 Round 28.588 to the nearest whole number.

Answer: ___

(1)

---

37 11.14 - 2.02 =

Answer: ___

(1)

---

38 Round 23.056 to the nearest whole number.

Answer: ___

(1)

---

39 27.43 - 3.42 =

Answer: ___

(1)

---

40 98.23 + 2.11 =

Answer: ___

(1)

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41 A comic costs £4.41 and a apple costs £17.16. George pays with a £25 note.

How much change does George get?

Answer: £___

(2)

---

42 A ball costs £1.21 and a ruler costs £18.72.

What is the total cost of the two items?

Answer: £___

(2)

---

43 Write 0.25 as a percentage.

Answer: ___ %

(2)

---

44 Priya buys 3.5 m of ribbon and cuts it into 7 equal lengths. How long is each length in metres?

(2)

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45 A kite costs £7.14 and a sandwich costs £2.47. Reece pays with a £10 note.

How much change does Reece get?

Answer: £___

(2)

---

46 821.4 divided by 1,000 =

Answer: ___

(1)

---

47 Work out 10% of 56 kg.

Answer: ___

(2)

---

48 Write these decimals in order, starting with the largest.

1.076, 1.797, 1.276, 1.533

Answer: ___

(1)

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49 Increase £48 by 75%.

Answer: ___

(2)

---

50 Write these decimals in order, starting with the largest.

1.111, 1.562, 1.140, 1.346

Answer: ___

(1)

---

51 26.18 divided by 1,000 =

Answer: ___

(1)

---

52 12.23 - 3.32 =

Answer: ___

(1)

---

53 A shop reduces the price of a toy from £12.00 by 10%. Work out the new price.

(2)

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54 Write these decimals in order, starting with the smallest.

1.348, 1.683, 0.804, 1.247

Answer: ___

(1)

---

55 222.4 divided by 100 =

Answer: ___

(1)

---

56 99.80 + 8.46 =

Answer: ___

(1)

---

57 Work out 25% of 60 kg.

Answer: ___

(2)

---

58 Write 1/2 as a percentage.

Answer: ___ %

(2)

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59 A bun costs £19.09 and a biscuit costs £8.98.

What is the total cost of the two items?

Answer: £___

(2)

---

60 Write these decimals in order, starting with the smallest.

1.420, 0.659, 1.059, 0.600

Answer: ___

(1)

---

61 Round 988.34 to the nearest whole number.

Answer: ___

(1)

---

62 Write 0.375 as a fraction in its simplest form.

(2)

---

63 A bottle holds 6 litres. How many litres are there in 6 bottles?

Answer: ___ litres

(2)

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64 20.28 + 5.01 =

Answer: ___

(1)

---

65 How many hundredths are in 0.85?

Answer: ___

(1)

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Mark scheme · 4.8 Decimals and Percentages (Year 5): 2-hour Pack

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

Question 1

multiplication seen	M1
8.5 km cao	A1

Answer: **8.5 km**

Question 2

percentage found	M1
83.2 m cao	A1

Answer: **83.2 m**

Question 3

converts to a common form	M1
0.2, 0.4, 1/2 cao	A1

Answer: **0.2, 0.4, 1/2**

Question 4

532,100 cao	B1

Answer: **532,100**

Question 5

0.03 cao	B1

Answer: **0.03**

Question 6

19% cao	B1

Answer: **19%**

Question 7

10% or 1% found	M1
£15 cao	A1

Answer: **£15**

Question 8

converts to a common form	M1
25%, 13/20, 0.7 cao	A1

Answer: **25%, 13/20, 0.7**

Question 9

7.30 or 7.3 cao	B1

Answer: **7.3**

Question 10

converts to a common form	M1
25%, 0.4, 9/20 cao	A1

Answer: **25%, 0.4, 9/20**

Question 11

76.90 cao	B1

Answer: **76.90**

Question 12

46.05 cao	B1

Answer: **46.05**

Question 13

6.403 cao	B1

Answer: **6.403**

Question 14

subtraction method	M1
£1.56 cao	A1

Answer: **£1.56**

Question 15

28.67 cao	B1

Answer: **28.67**

Question 16

30%, 0.4, 0.65 cao	B1

Answer: **30%, 0.4, 0.65**

Question 17

1.491, 1.472, 1.077, 0.760 cao	B1

Answer: **1.491, 1.472, 1.077, 0.760**

Question 18

converts to a common form	M1
25%, 40%, 0.45 cao	A1

Answer: **25%, 40%, 0.45**

Question 19

method seen	M1
0.75 cao	A1

Answer: **0.75**

Question 20

0.08 cao	B1

Answer: **0.08**

Question 21

multiplication seen	M1
21.5 km cao	A1

Answer: **21.5 km**

Question 22

method seen	M1
90% cao	A1

Answer: **90%**

Question 23

897.0 cao	B1

Answer: **897.0**

Question 24

32.97 cao	B1

Answer: **32.97**

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Question 25

0.25 cao — **B1**

Answer: **0.25**

Question 26

10.4 metres cao — **B1**

Answer: **10.4 metres**

Question 27

subtraction method — **M1**

£1.33 cao — **A1**

Answer: **£1.33**

Question 28

multiplication seen — **M1**

18 km cao — **A1**

Answer: **18 km**

Question 29

3.9 km cao — **B1**

Answer: **3.9 km**

Question 30

1.558, 1.541, 0.869, 0.698 cao — **B1**

Answer: **1.558, 1.541, 0.869, 0.698**

Question 31

percentage found — **M1**

adds or subtracts correctly — **M1**

68.4 kg cao — **A1**

Answer: **68.4 kg**

Question 32

70.92 cao — **B1**

Answer: **70.92**

Question 33

57 cao — **B1**

Answer: **57**

Question 34

0.6 cao — **B1**

Answer: **0.6**

Question 35

multiplication seen — **M1**

36.8 metres cao — **A1**

Answer: **36.8 metres**

Question 36

29 cao — **B1**

Answer: **29**

Question 37

9.12 cao — **B1**

Answer: **9.12**

Question 38

23 cao — **B1**

Answer: **23**

Question 39

24.01 cao — **B1**

Answer: **24.01**

Question 40

100.34 cao — **B1**

Answer: **100.34**

Question 41

21.57 seen — **M1**

£3.43 cao — **A1**

Answer: **£3.43**

Question 42

addition of pounds and pence — **M1**

£19.93 cao — **A1**

Answer: **£19.93**

Question 43

method seen — **M1**

25% cao — **A1**

Answer: **25%**

Question 44

Division 3.5 / 7 seen or 35 / 70 or equivalent — **M1**

0.5 m cao — **B1**

Answer: **0.5**

Question 45

9.61 seen — **M1**

£0.39 cao — **A1**

Answer: **£0.39**

Question 46

0.8214 cao — **B1**

Answer: **0.8214**

Question 47

10% or 1% found — **M1**

5.6 kg cao — **A1**

Answer: **5.6 kg**

Question 48

1.797, 1.533, 1.276, 1.076 cao — **B1**

Answer: **1.797, 1.533, 1.276, 1.076**

Question 49

percentage found — **M1**

£84 cao — **A1**

Answer: **£84**

Question 50

1.562, 1.346, 1.140, 1.111 cao — **B1**

Answer: **1.562, 1.346, 1.140, 1.111**

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Question 51

0.02618 cao **B1**

Answer: **0.02618**

Question 52

8.91 cao **B1**

Answer: **8.91**

Question 53

10% of £12.00 = £1.20 seen **M1**

£10.80 cao **B1**

Answer: **£10.80**

Question 54

0.804, 1.247, 1.348, 1.683 cao **B1**

Answer: **0.804, 1.247, 1.348, 1.683**

Question 55

2.224 cao **B1**

Answer: **2.224**

Question 56

108.26 cao **B1**

Answer: **108.26**

Question 57

10% or 1% found **M1**

15 kg cao **A1**

Answer: **15 kg**

Question 58

method seen **M1**

50% cao **A1**

Answer: **50%**

Question 59

addition of pounds and pence **M1**

£28.07 cao **A1**

Answer: **£28.07**

Question 60

0.600, 0.659, 1.059, 1.420 cao **B1**

Answer: **0.600, 0.659, 1.059, 1.420**

Question 61

988 cao **B1**

Answer: **988**

Question 62

Correct fraction 375/1000 or equivalent seen **M1**

3/8 cao **B1**

Answer: **3/8**

Question 63

multiplication seen **M1**

36 litres cao **A1**

Answer: **36 litres**

Question 64

25.29 cao **B1**

Answer: **25.29**

Question 65

85 cao **B1**

Answer: **85**

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