4.6 Fractions and Decimal Equivalents: 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write 1/10 as a decimal.

Answer: ___

(2)

---

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

5.22, 5.05, 5.23, 5.51

Answer: ___

(1)

---

3 Work out 5/6 + 5/6.

Give your answer in its simplest form.

Answer: ___

(2)

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4 What decimal is made from 1 ones, 3 tenths, 2 hundredths and 5 thousandths?

Answer: ___

(1)

---

5 Round 732.15 to 1 decimal place.

Answer: ___

(1)

---

6 Write these fractions in order, starting with the smallest.

3/12, 3/6, 5/6

Answer: ___

(2)

---

7 Write 0.7 as a fraction with a denominator of 10.

(1)

---

8 Write 7/100 as a decimal.

(1)

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9 Round each number to the nearest whole number.

(a) 8.4 **(1)**

(b) 12.7 **(1)**

---

10 Count on in tenths. Write the missing number.
0.8, 0.9, ___, 1.1

(1)

---

11 Write these numbers in order, starting with the smallest.
2.4, 0.9, 4.2, 1.7

(2)

---

12 Write £4.05 in pence.

(1)

---

13 Write 3/10 as an equivalent fraction out of 100.

(1)

---

14 A number is exactly halfway between 0.4 and 0.6.
Write the number.

(1)

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15 Write 2 and 7/10 as a decimal.

(1)

---

16 Write 0.8 as a fraction in its simplest form.

Answer: ___

(2)

---

17 Write these fractions in order, starting with the smallest.

4/5, 3/4, 3/10

Answer: ___

(2)

---

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

1.94, 1.01, 1.82, 1.02

Answer: ___

(1)

---

19 How many tenths are there in 2 wholes?

Answer: ___

(1)

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

4.3, 4.2, 4.4, 4.9

Answer: ___

(1)

---

21 Write these fractions in order, starting with the largest.

3/5, 7/10, 4/5

Answer: ___

(2)

---

22 What is the value of the digit 8 in 2.983?

Answer: ___

(1)

---

23 Ethan has 40 pebbles. Ethan gives 1/2 of them to a friend.

How many pebbles does Ethan give to the friend?

Answer: ___

(2)

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

4.15, 4.02, 4.11, 4.46

Answer: ___

(1)

---

25 Write these fractions in order, starting with the smallest.

7/20, 3/5, 1/10

Answer: ___

(1)

---

26 Victor has 114 apples. Victor gives 5/6 of them to a friend.

How many apples does Victor give to the friend?

Answer: ___

(2)

---

27 Write 3/5 as a decimal.

Answer: ___

(2)

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

7.3, 7.0, 7.6, 7.9

Answer: ___

(1)

---

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

5.5, 5.7, 5.4, 5.8

Answer: ___

(1)

---

30 Order the numbers below from smallest to largest: 0.3, 26/100, 1/4.

(1)

---

31 What decimal is made from 3 ones, 7 tenths, 6 hundredths and 4 thousandths?

Answer: ___

(1)

---

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

9.0, 9.2, 9.7, 9.1

Answer: ___

(1)

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33 What is the value of the digit 5 in 9.653?

Answer: ___

(1)

---

34 Write these fractions in order, starting with the smallest.

1/3, 2/3, 1/2

Answer: ___

(2)

---

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

3.43, 3.92, 3.13, 3.49

Answer: ___

(1)

---

36 Write 30/50 in its simplest form.

Answer: ___

(2)

---

37 How many hundredths are in 0.75?

Answer: ___

(1)

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38 Write these fractions in order, starting with the largest.

1/5, 1/4, 9/10

Answer: ___

(2)

---

39 A bar is divided into 4 equal parts. 3 parts are shaded.

What fraction of the bar is not shaded?

Answer: ___

(1)

---

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

8.32, 8.15, 8.28, 8.07

Answer: ___

(1)

---

41 A apple costs £3.65 and a notebook costs £11.83.

What is the total cost of the two items?

Answer: £___

(1)

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42 Round 318.83 to 1 decimal place.

Answer: ___

(1)

---

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

8.5, 8.9, 8.8, 8.0

Answer: ___

(1)

---

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

2.13, 2.80, 2.15, 2.64

Answer: ___

(1)

---

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

5.4, 5.5, 5.3, 5.8

Answer: ___

(1)

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

8.02, 8.83, 8.21, 8.16

Answer: ___

(1)

---

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

7.47, 7.96, 7.60, 7.58

Answer: ___

(1)

---

48 Work out 1/6 + 5/12.

Give your answer in its simplest form.

Answer: ___

(3)

---

49 3/8 = 18/___

Answer: ___

(1)

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50 Work out 1/5 + 2/5.

Give your answer in its simplest form.

Answer: ___

(2)

---

51 What decimal is made from 8 ones, 1 tenths, 6 hundredths and 2 thousandths?

Answer: ___

(1)

---

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

8.45, 8.89, 8.90, 8.82

Answer: ___

(1)

---

53 Write 7/10 as a decimal.

Answer: ___

(2)

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54 A apple costs £6.91 and a banana costs £11.85.

How much more does the dearer item cost?

Answer: £___

(1)

---

55 How many hundredths are in 0.89?

Answer: ___

(1)

---

56 Round 7.701 to 1 decimal place.

Answer: ___

(1)

---

57 Calculate 0.75 minus 1/4. Give the answer as a decimal.

(2)

---

58 What decimal is made from 5 ones, 9 tenths, 4 hundredths and 2 thousandths?

Answer: ___

(1)

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59 A bun costs £10.79 and a ruler costs £4.44.

What is the total cost of the two items?

Answer: £___

(2)

---

60 2/3 = 12/___

Answer: ___

(1)

---

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

9.06, 9.87, 9.17, 9.50

Answer: ___

(1)

---

62 A pencil costs £18.58 and a lolly costs £1.57. Femi pays with a £25 note.

How much change does Femi get?

Answer: £___

(2)

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63 Round 3.124 to 1 decimal place.

Answer: ___

(1)

---

64 3/4 = ___/12

Answer: ___

(1)

---

65 Write 0.75 as a fraction in its simplest form.

Answer: ___

(1)

---

66 Write 0.5 as a fraction in simplest form.

(1)

---

67 A kite costs £15.17 and a keyring costs £3.13.

What is the total cost of the two items?

Answer: £___

(2)

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

9.8, 9.3, 9.2, 9.7

Answer: ___

(1)

---

69 What decimal is made from 7 ones, 1 tenths, 6 hundredths and 5 thousandths?

Answer: ___

(1)

---

70 Round 8.091 to 2 decimal places.

Answer: ___

(1)

---

71 A balloon costs £8.96 and a apple costs £14.32. Jack pays with a £25 note.

How much change does Jack get?

Answer: £___

(2)

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Mark scheme · 4.6 Fractions and Decimal Equivalents: 2-hour Pack

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

Question 1

method seen — M1
0.1 cao — A1
Answer: **0.1**

Question 2

5.05, 5.22, 5.23, 5.51 cao — B1
Answer: **5.05, 5.22, 5.23, 5.51**

Question 3

converts to a common denominator — M1
1 2/3 or 5/3 cao — A1
Answer: **1 2/3**

Question 4

1.325 cao — B1
Answer: **1.325**

Question 5

732.2 cao — B1
Answer: **732.2**

Question 6

converts to a common denominator or decimals — M1
3/12, 3/6, 5/6 cao — A1
Answer: **3/12, 3/6, 5/6**

Question 7

7/10 cao — B1
Answer: **7/10**

Question 8

0.07 cao — B1
Answer: **0.07**

Question 9

(a) 8 cao — B1
(a) Answer: **8**
(b) 13 cao — B1
(b) Answer: **13**

Question 10

1 or 1.0 cao — B1
Answer: **1.0**

Question 11

0.9 and 1.7 as the two smallest numbers, in the correct order (0.9 then 1.7) oe — B1
0.9, 1.7, 2.4, 4.2 cao — B1
Answer: **0.9, 1.7, 2.4, 4.2**

Question 12

405p cao (accept 405) — B1
Answer: **405p**

Question 13

30/100 cao — B1
Answer: **30/100**

Question 14

0.5 cao — B1
Answer: **0.5**

Question 15

2.7 cao — B1
Answer: **2.7**

Question 16

method seen — M1
4/5 cao — A1
Answer: **4/5**

Question 17

converts to a common denominator or decimals — M1
3/10, 3/4, 4/5 cao — A1
Answer: **3/10, 3/4, 4/5**

Question 18

1.01, 1.02, 1.82, 1.94 cao — B1
Answer: **1.01, 1.02, 1.82, 1.94**

Question 19

20 cao — B1
Answer: **20**

Question 20

4.9, 4.4, 4.3, 4.2 cao — B1
Answer: **4.9, 4.4, 4.3, 4.2**

Question 21

converts to a common denominator or decimals — M1
4/5, 7/10, 3/5 cao — A1
Answer: **4/5, 7/10, 3/5**

Question 22

0.08 cao — B1
Answer: **0.08**

Question 23

divides by the denominator — M1
20 cao — A1
Answer: **20**

Question 24

4.02, 4.11, 4.15, 4.46 cao — B1
Answer: **4.02, 4.11, 4.15, 4.46**

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Question 25

1/10, 7/20, 3/5 cao — **B1**

Answer: **1/10, 7/20, 3/5**

Question 26

114 divided by 6 = 19 seen — **M1**

95 cao — **A1**

Answer: **95**

Question 27

method seen — **M1**

0.6 cao — **A1**

Answer: **0.6**

Question 28

7.9, 7.6, 7.3, 7.0 cao — **B1**

Answer: **7.9, 7.6, 7.3, 7.0**

Question 29

5.4, 5.5, 5.7, 5.8 cao — **B1**

Answer: **5.4, 5.5, 5.7, 5.8**

Question 30

1/4, 26/100, 0.3 cao — **B1**

Answer: **1/4, 26/100, 0.3**

Question 31

3.764 cao — **B1**

Answer: **3.764**

Question 32

9.7, 9.2, 9.1, 9.0 cao — **B1**

Answer: **9.7, 9.2, 9.1, 9.0**

Question 33

0.05 cao — **B1**

Answer: **0.05**

Question 34

converts to a common denominator or decimals — **M1**

1/3, 1/2, 2/3 cao — **A1**

Answer: **1/3, 1/2, 2/3**

Question 35

3.13, 3.43, 3.49, 3.92 cao — **B1**

Answer: **3.13, 3.43, 3.49, 3.92**

Question 36

divides numerator and denominator by a common factor — **M1**

3/5 cao — **A1**

Answer: **3/5**

Question 37

75 cao — **B1**

Answer: **75**

Question 38

converts to a common denominator or decimals — **M1**

9/10, 1/4, 1/5 cao — **A1**

Answer: **9/10, 1/4, 1/5**

Question 39

1/4 cao — **B1**

Answer: **1/4**

Question 40

8.32, 8.28, 8.15, 8.07 cao — **B1**

Answer: **8.32, 8.28, 8.15, 8.07**

Question 41

£15.48 cao — **B1**

Answer: **£15.48**

Question 42

318.8 cao — **B1**

Answer: **318.8**

Question 43

8.0, 8.5, 8.8, 8.9 cao — **B1**

Answer: **8.0, 8.5, 8.8, 8.9**

Question 44

2.80, 2.64, 2.15, 2.13 cao — **B1**

Answer: **2.80, 2.64, 2.15, 2.13**

Question 45

5.3, 5.4, 5.5, 5.8 cao — **B1**

Answer: **5.3, 5.4, 5.5, 5.8**

Question 46

8.83, 8.21, 8.16, 8.02 cao — **B1**

Answer: **8.83, 8.21, 8.16, 8.02**

Question 47

7.96, 7.60, 7.58, 7.47 cao — **B1**

Answer: **7.96, 7.60, 7.58, 7.47**

Question 48

converts to a common denominator — **M1**

one correct fraction seen — **M1**

7/12 cao — **A1**

Answer: **7/12**

Question 49

48 cao — **B1**

Answer: **48**

Question 50

converts to a common denominator — **M1**

3/5 cao — **A1**

Answer: **3/5**

Question 51

8.162 cao — **B1**

Answer: **8.162**

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Question 52

8.45, 8.82, 8.89, 8.90 cao **B1**

Answer: **8.45, 8.82, 8.89, 8.90**

Question 53

method seen **M1**

0.7 cao **A1**

Answer: **0.7**

Question 54

£4.94 cao **B1**

Answer: **£4.94**

Question 55

89 cao **B1**

Answer: **89**

Question 56

7.7 cao **B1**

Answer: **7.7**

Question 57

Convert 1/4 to 0.25 or 25/100 and subtract from 0.75 **M1**

0.50 cao **A1**

Answer: **0.50**

Question 58

5.942 cao **B1**

Answer: **5.942**

Question 59

addition of pounds and pence **M1**

£15.23 cao **A1**

Answer: **£15.23**

Question 60

18 cao **B1**

Answer: **18**

Question 61

9.06, 9.17, 9.50, 9.87 cao **B1**

Answer: **9.06, 9.17, 9.50, 9.87**

Question 62

20.15 seen **M1**

£4.85 cao **A1**

Answer: **£4.85**

Question 63

3.1 cao **B1**

Answer: **3.1**

Question 64

9 cao **B1**

Answer: **9**

Question 65

3/4 cao **B1**

Answer: **3/4**

Question 66

1/2 cao **B1**

Answer: **1/2**

Question 67

addition of pounds and pence **M1**

£18.30 cao **A1**

Answer: **£18.30**

Question 68

9.2, 9.3, 9.7, 9.8 cao **B1**

Answer: **9.2, 9.3, 9.7, 9.8**

Question 69

7.165 cao **B1**

Answer: **7.165**

Question 70

8.09 cao **B1**

Answer: **8.09**

Question 71

23.28 seen **M1**

£1.72 cao **A1**

Answer: **£1.72**

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