4.5 Introduction to Fractions: 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 How many eighths are there in 2 wholes?

Answer: ___

(1)

---

2 Write 30/36 in its simplest form.

Answer: ___

(2)

---

3 A chocolate bar is split into 12 equal squares. Lina eats 6 squares. What fraction of the bar did she eat? Give the fraction in simplest form.

(2)

---

4 Write 21/30 in its simplest form.

Answer: ___

(1)

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5 Write <, > or = in the box.

3/7 [ ] 5/12

Answer: ___

(2)

---

6 Willow has 54 crayons. Willow gives 2/3 of them to a friend.

How many crayons does Willow give to the friend?

Answer: ___

(1)

---

7 Which fraction is equivalent to 11/12?

A: 45/48 B: 44/49 C: 15/16 D: 44/48

Write the letter.

Answer: ___

(1)

---

8 Write <, > or = in the box.

2/3 [ ] 2/5

Answer: ___

(1)

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9 8/10 of a number is 64. What is the number?

Answer: ___

(1)

---

10 A bar is divided into 6 equal parts. 3 parts are shaded.

What fraction of the bar is not shaded?

Answer: ___

(1)

---

11 A bar is divided into 5 equal parts. 1 parts are shaded.

What fraction of the bar is not shaded?

Answer: ___

(1)

---

12 Write <, > or = in the box.

6/7 [ ] 8/12

Answer: ___

(1)

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13 Ella eats 6/12 of a bar of chocolate on Monday and 1/12 on Tuesday.

What fraction of the bar of chocolate is left? Give your answer in its simplest form.

Answer: ___

(2)

---

14 Which fraction is equivalent to 1/3?

A: 5/15 B: 6/15 C: 5/16 D: 6/8

Write the letter.

Answer: ___

(1)

---

15 Write 21/24 in its simplest form.

Answer: ___

(1)

---

16 Work out 2/5 of 85.

Answer: ___

(2)

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17 Yusuf has 24 pencils. Yusuf gives 5/8 of them to a friend.

How many pencils does Yusuf give to the friend?

Answer: ___

(1)

---

18 Priya colours 3 equal parts out of 8 on a paper strip. Write the fraction that Priya coloured.

(1)

---

19 Write <, > or = in the box.

3/5 [ ] 1/8

Answer: ___

(2)

---

20 Work out 2/10 of 50.

Answer: ___

(2)

---

21 1/2 of the pebbles in a jar is 14. How many pebbles are in the jar?

Answer: ___

(2)

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22 A bar is divided into 8 equal parts. 7 parts are shaded.

What fraction of the bar is not shaded?

Answer: ___

(1)

---

23 Write <, > or = in the box.

1/5 [ ] 2/8

Answer: ___

(2)

---

24 9/10 of the apples in a jar is 54. How many apples are in the jar?

Answer: ___

(2)

---

25 A bar is divided into 10 equal parts. 2 parts are shaded.

What fraction of the bar is not shaded?

Answer: ___

(1)

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26 Write <, > or = in the box.

4/5 [ ] 5/6

Answer: ___

(1)

---

27 2/4 = 12/___

Answer: ___

(1)

---

28 Which fraction is equivalent to 4/5?

A: 20/26 B: 9/10 C: 21/25 D: 20/25

Write the letter.

Answer: ___

(1)

---

29 Reece has 45 books. Reece gives 1/3 of them to a friend.

How many books does Reece give to the friend?

Answer: ___

(1)

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30 1/3 = ___/9

Answer: ___

(1)

---

31 How many quarters are there in 4 wholes?

Answer: ___

(1)

---

32 Willow eats 4/12 of a tray of flapjacks on Monday and 6/12 on Tuesday.

What fraction of the tray of flapjacks is left? Give your answer in its simplest form.

Answer: ___

(2)

---

33 Quinn eats 5/10 of a tray of flapjacks on Monday and 1/10 on Tuesday.

What fraction of the tray of flapjacks is left? Give your answer in its simplest form.

Answer: ___

(2)

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34 Bella has 100 marbles. Bella gives 2/5 of them to a friend.

How many marbles does Bella give to the friend?

Answer: ___

(1)

---

35 Write the fraction shown by shading one of the three equal boxes: one box shaded out of three.

(1)

---

36 2/6 = 6/___

Answer: ___

(1)

---

37 Work out 11/12 - 5/6.

Give your answer in its simplest form.

Answer: ___

(3)

---

38 4/6 of the sweets in a jar is 32. How many sweets are in the jar?

Answer: ___

(2)

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39 Jack eats 1/6 of a cake on Monday and 1/6 on Tuesday.

What fraction of the cake is left? Give your answer in its simplest form.

Answer: ___

(2)

---

40 Bella has 12 balloons. Bella gives 1/2 of them to a friend.

How many balloons does Bella give to the friend?

Answer: ___

(1)

---

41 2/6 = 4/___

Answer: ___

(1)

---

42 A bar is divided into 10 equal parts. 7 parts are shaded.

What fraction of the bar is not shaded?

Answer: ___

(1)

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43 1/2 of the stars in a jar is 2. How many stars are in the jar?

Answer: ___

(2)

---

44 Olu eats 4/12 of a bar of chocolate on Monday and 6/12 on Tuesday.

What fraction of the bar of chocolate is left? Give your answer in its simplest form.

Answer: ___

(2)

---

45 1/2 of the toy cars in a jar is 6. How many toy cars are in the jar?

Answer: ___

(2)

---

46 1/3 of the pencils in a jar is 5. How many pencils are in the jar?

Answer: ___

(2)

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47 Work out 1/4 of 16.

Answer: ___

(1)

---

48 Write <, > or = in the box.

2/7 [ ] 1/10

Answer: ___

(1)

---

49 Write <, > or = in the box.

2/3 [ ] 4/8

Answer: ___

(2)

---

50 Olu eats 4/9 of a tray of flapjacks on Monday and 2/9 on Tuesday.

What fraction of the tray of flapjacks is left? Give your answer in its simplest form.

Answer: ___

(2)

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51 A bar is divided into 8 equal parts. 5 parts are shaded.

What fraction of the bar is not shaded?

Answer: ___

(1)

---

52 2/4 = ___/16

Answer: ___

(1)

---

53 1/4 of the cards in a jar is 4. How many cards are in the jar?

Answer: ___

(2)

---

54 Write 35/50 in its simplest form.

Answer: ___

(2)

---

55 What is 1/10 of 60?

Answer: ___

(1)

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56 Which fraction is equivalent to 3/4?

A: 10/12 B: 9/12 C: 6/7 D: 9/13

Write the letter.

Answer: ___

(1)

---

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

5/8, 2/4, 3/4

Answer: ___

(2)

---

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

2/5, 1/10, 1/5

Answer: ___

(2)

---

59 Daisy has 39 stamps. Daisy gives 2/3 of them to a friend.

How many stamps does Daisy give to the friend?

Answer: ___

(1)

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60 Write <, > or = in the box.

1/3 [ ] 3/5

Answer: ___

(2)

---

61 6/10 = ___/20

Answer: ___

(1)

---

62 2/5 = 4/___

Answer: ___

(1)

---

63 1/6 of the buttons in a jar is 6. How many buttons are in the jar?

Answer: ___

(2)

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64 Daisy eats 3/8 of a cake on Monday and 3/8 on Tuesday.

What fraction of the cake is left? Give your answer in its simplest form.

Answer: ___

(2)

---

65 Grace eats 2/12 of a pie on Monday and 6/12 on Tuesday.

What fraction of the pie is left? Give your answer in its simplest form.

Answer: ___

(2)

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Mark scheme · 4.5 Introduction to Fractions: 2-hour Pack

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

Question 1

16 cao — **B1**

Answer: **16**

Question 2

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

5/6 cao — **A1**

Answer: **5/6**

Question 3

6/12 seen or calculation 12 ÷ 12 × 6 — **M1**

1/2 cao after simplifying 6/12 — **B1**

Answer: **1/2**

Question 4

7/10 cao — **B1**

Answer: **7/10**

Question 5

common denominator seen — **M1**

> cao — **A1**

Answer: **>**

Question 6

36 cao — **B1**

Answer: **36**

Question 7

D cao — **B1**

Answer: **D**

Question 8

> cao — **B1**

Answer: **>**

Question 9

80 cao — **B1**

Answer: **80**

Question 10

3/6 cao — **B1**

Answer: **3/6**

Question 11

4/5 cao — **B1**

Answer: **4/5**

Question 12

> cao — **B1**

Answer: **>**

Question 13

7/12 eaten seen — **M1**

5/12 cao — **A1**

Answer: **5/12**

Question 14

A cao — **B1**

Answer: **A**

Question 15

7/8 cao — **B1**

Answer: **7/8**

Question 16

85 divided by 5 = 17 seen — **M1**

34 cao — **A1**

Answer: **34**

Question 17

15 cao — **B1**

Answer: **15**

Question 18

3/8 cao — **B1**

Answer: **3/8**

Question 19

common denominator seen — **M1**

> cao — **A1**

Answer: **>**

Question 20

50 divided by 10 = 5 seen — **M1**

10 cao — **A1**

Answer: **10**

Question 21

14 x 2 seen — **M1**

28 cao — **A1**

Answer: **28**

Question 22

1/8 cao — **B1**

Answer: **1/8**

Question 23

common denominator seen — **M1**

< cao — **A1**

Answer: **<**

Question 24

54 / 9 = 6 seen — **M1**

60 cao — **A1**

Answer: **60**

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Question 25

8/10 cao **B1**

Answer: **8/10**

Question 26

< cao **B1**

Answer: **<**

Question 27

24 cao **B1**

Answer: **24**

Question 28

D cao **B1**

Answer: **D**

Question 29

15 cao **B1**

Answer: **15**

Question 30

3 cao **B1**

Answer: **3**

Question 31

16 cao **B1**

Answer: **16**

Question 32

10/12 eaten seen **M1**

1/6 cao **A1**

Answer: **1/6**

Question 33

6/10 eaten seen **M1**

2/5 cao **A1**

Answer: **2/5**

Question 34

40 cao **B1**

Answer: **40**

Question 35

1/3 cao **B1**

Answer: **1/3**

Question 36

18 cao **B1**

Answer: **18**

Question 37

converts to a common denominator **M1**

one correct fraction seen **M1**

1/12 cao **A1**

Answer: **1/12**

Question 38

32 / 4 = 8 seen **M1**

48 cao **A1**

Answer: **48**

Question 39

2/6 eaten seen **M1**

2/3 cao **A1**

Answer: **2/3**

Question 40

6 cao **B1**

Answer: **6**

Question 41

12 cao **B1**

Answer: **12**

Question 42

3/10 cao **B1**

Answer: **3/10**

Question 43

2 x 2 seen **M1**

4 cao **A1**

Answer: **4**

Question 44

10/12 eaten seen **M1**

1/6 cao **A1**

Answer: **1/6**

Question 45

6 x 2 seen **M1**

12 cao **A1**

Answer: **12**

Question 46

5 x 3 seen **M1**

15 cao **A1**

Answer: **15**

Question 47

4 cao **B1**

Answer: **4**

Question 48

> cao **B1**

Answer: **>**

Question 49

common denominator seen **M1**

> cao **A1**

Answer: **>**

Question 50

6/9 eaten seen **M1**

1/3 cao **A1**

Answer: **1/3**

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Question 51

3/8 cao	**B1**

Answer: **3/8**

Question 52

8 cao	**B1**

Answer: **8**

Question 53

4 x 4 seen	**M1**
16 cao	**A1**

Answer: **16**

Question 54

divides numerator and denominator by a common factor	**M1**
7/10 cao	**A1**

Answer: **7/10**

Question 55

6 cao	**B1**

Answer: **6**

Question 56

B cao	**B1**

Answer: **B**

Question 57

converts to a common denominator or decimals	**M1**
2/4, 5/8, 3/4 cao	**A1**

Answer: **2/4, 5/8, 3/4**

Question 58

converts to a common denominator or decimals	**M1**
1/10, 1/5, 2/5 cao	**A1**

Answer: **1/10, 1/5, 2/5**

Question 59

26 cao	**B1**

Answer: **26**

Question 60

common denominator seen	**M1**
< cao	**A1**

Answer: **<**

Question 61

12 cao	**B1**

Answer: **12**

Question 62

10 cao	**B1**

Answer: **10**

Question 63

6 x 6 seen	**M1**
36 cao	**A1**

Answer: **36**

Question 64

6/8 eaten seen	**M1**
1/4 cao	**A1**

Answer: **1/4**

Question 65

8/12 eaten seen	**M1**
1/3 cao	**A1**

Answer: **1/3**

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