4.9 Fractions: All Four Operations: 2-hour Pack

Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write 12/18 in its simplest form.

(1)

2 3/6 x 1/4 =

Answer: ___

(2)

3 3/6 x 2 =

Answer: ___

(1)

4 Work out 2 4/5 - 2 1/5.

Give your answer in its simplest form.

Answer: ___

(2)

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5 Hana eats 5/12 of a tray of flapjacks on Monday and 5/12 on Tuesday.

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

Answer: ___

(2)

---

6 5 3/8 + 5 1/2 =

Answer: ___

(2)

---

7 2/5 divided by 2 =

Answer: ___

(2)

---

8 Write 13/8 as a mixed number.

Answer: ___

(1)

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9 2/3 of the coins in a jar is 10. How many coins are in the jar?

Answer: ___

(2)

---

10 1/5 of the books in a jar is 8. How many books are in the jar?

Answer: ___

(2)

---

11 Calculate 5 x 3/10.

(1)

---

12 7/12 - 1/4 =

Answer: ___

(1)

---

13 3/4 of the marbles in a jar is 6. How many marbles are in the jar?

Answer: ___

(2)

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14 4/5 divided by 3 =

Answer: ___

(2)

---

15 Write 1 3/6 as an improper fraction.

Answer: ___

(1)

---

16 Write 3 1/2 as an improper fraction.

Answer: ___

(2)

---

17 1 1/2 + 3 1/2 =

Answer: ___

(2)

---

18 5/8 x 4/5 =

Answer: ___

(1)

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19 2/5 x 7 =

Answer: ___

(1)

---

20 1 2/3 + 2 2/3 =

Answer: ___

(1)

---

21 3/6 divided by 4 =

Answer: ___

(2)

---

22 3/6 of the cards in a jar is 39. How many cards are in the jar?

Answer: ___

(2)

---

23 Daisy eats 3/6 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)

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24 1/3 x 1/2 =

Answer: ___

(2)

---

25 3/8 divided by 3 =

Answer: ___

(2)

---

26 2/3 x 1/5 =

Answer: ___

(2)

---

27 Victor eats 2/9 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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28 Yusuf eats 2/8 of a bar of chocolate on Monday and 1/8 on Tuesday.

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

Answer: ___

(2)

---

29 3/5 x 2 =

Answer: ___

(1)

---

30 Work out 4 1/2 - 3 1/2.

Give your answer in its simplest form.

Answer: ___

(2)

---

31 8/10 - 6/8 =

Answer: ___

(2)

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32 7/8 divided by 4 =

Answer: ___

(2)

---

33 3 2/3 + 3 1/6 =

Answer: ___

(1)

---

34 Work out 3 1/3 + 3 11/12.

Give your answer in its simplest form.

Answer: ___

(3)

---

35 1/4 of the cherries in a jar is 14. How many cherries are in the jar?

Answer: ___

(2)

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36 5/6 x 3 =

Answer: ___

(1)

---

37 4/6 x 8 =

Answer: ___

(1)

---

38 Work out 2/5 ÷ 4/15. Give your answer in simplest form.

(2)

---

39 Work out 4 1/3 - 3 1/2.

Give your answer in its simplest form.

Answer: ___

(2)

---

40 3/6 of the pebbles in a jar is 27. How many pebbles are in the jar?

Answer: ___

(2)

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41 Callum eats 1/4 of a tray of flapjacks on Monday and 2/4 on Tuesday.

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

Answer: ___

(2)

---

42 6/8 x 1/2 =

Answer: ___

(2)

---

43 Poppy eats 2/6 of a pizza on Monday and 3/6 on Tuesday.

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

Answer: ___

(2)

---

44 Priya eats 2/8 of a cake on Monday and 4/8 on Tuesday.

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

Answer: ___

(2)

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45 Isla eats 3/9 of a pizza on Monday and 4/9 on Tuesday.

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

Answer: ___

(2)

---

46 Priya eats 1/6 of a tray of flapjacks on Monday and 3/6 on Tuesday.

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

Answer: ___

(2)

---

47 4 1/2 + 1 1/2 =

Answer: ___

(2)

---

48 1/5 x 2 =

Answer: ___

(1)

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49 1 1/3 + 2 4/6 =

Answer: ___

(2)

---

50 Write 2 1/2 as an improper fraction.

Answer: ___

(2)

---

51 Work out 1 9/10 + 2 1/2.

Give your answer in its simplest form.

Answer: ___

(2)

---

52 5/8 of the toy cars in a jar is 45. How many toy cars are in the jar?

Answer: ___

(2)

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53 1/6 + 1/2 =

Answer: ___

(2)

---

54 10/12 + 1/12 =

Answer: ___

(2)

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Mark scheme · 4.9 Fractions: All Four Operations: 2-hour Pack

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

Question 1

2/3 cao	B1

Answer: **2/3**

Question 2

method seen	M1
1/8 cao	A1

Answer: **1/8**

Question 3

1 cao	B1

Answer: **1**

Question 4

converts to a common denominator	M1
3/5 cao	A1

Answer: **3/5**

Question 5

10/12 eaten seen	M1
1/6 cao	A1

Answer: **1/6**

Question 6

method seen	M1
10 7/8 or 87/8 cao	A1

Answer: **10 7/8**

Question 7

method seen	M1
1/5 cao	A1

Answer: **1/5**

Question 8

1 5/8 cao	B1

Answer: **1 5/8**

Question 9

10 / 2 = 5 seen	M1
15 cao	A1

Answer: **15**

Question 10

8 x 5 seen	M1
40 cao	A1

Answer: **40**

Question 11

15/10 or 3/2 accepted; 3/2 cao	B1

Answer: **3/2**

Question 12

1/3 cao	B1

Answer: **1/3**

Question 13

6 / 3 = 2 seen	M1
8 cao	A1

Answer: **8**

Question 14

method seen	M1
4/15 cao	A1

Answer: **4/15**

Question 15

9/6 cao	B1

Answer: **9/6**

Question 16

method seen	M1
7/2 cao	A1

Answer: **7/2**

Question 17

method seen	M1
5 cao	A1

Answer: **5**

Question 18

1/2 cao	B1

Answer: **1/2**

Question 19

2 4/5 or 14/5 cao	B1

Answer: **2 4/5**

Question 20

4 1/3 or 13/3 cao	B1

Answer: **4 1/3**

Question 21

method seen	M1
1/8 cao	A1

Answer: **1/8**

Question 22

39 / 3 = 13 seen	M1
78 cao	A1

Answer: **78**

Question 23

4/6 eaten seen	M1
1/3 cao	A1

Answer: **1/3**

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Question 24

method seen	M1
1/6 cao	A1

Answer: **1/6**

Question 25

method seen	M1
1/8 cao	A1

Answer: **1/8**

Question 26

method seen	M1
2/15 cao	A1

Answer: **2/15**

Question 27

4/9 eaten seen	M1
5/9 cao	A1

Answer: **5/9**

Question 28

3/8 eaten seen	M1
5/8 cao	A1

Answer: **5/8**

Question 29

1 1/5 or 6/5 cao	B1

Answer: **1 1/5**

Question 30

converts to a common denominator	M1
1 cao	A1

Answer: **1**

Question 31

method seen	M1
1/20 cao	A1

Answer: **1/20**

Question 32

method seen	M1
7/32 cao	A1

Answer: **7/32**

Question 33

6 5/6 or 41/6 cao	B1

Answer: **6 5/6**

Question 34

converts to a common denominator	M1
one correct fraction seen	M1
7 1/4 or 29/4 cao	A1

Answer: **7 1/4**

Question 35

14 x 4 seen	M1
56 cao	A1

Answer: **56**

Question 36

2 1/2 or 5/2 cao	B1

Answer: **2 1/2**

Question 37

5 1/3 or 16/3 cao	B1

Answer: **5 1/3**

Question 38

correct use of reciprocal: 2/5 x 15/4 or equivalent cancellation	M1
3/2 or 1 1/2 cao	A1

Answer: **3/2**

Question 39

converts to a common denominator	M1
5/6 cao	A1

Answer: **5/6**

Question 40

27 / 3 = 9 seen	M1
54 cao	A1

Answer: **54**

Question 41

3/4 eaten seen	M1
1/4 cao	A1

Answer: **1/4**

Question 42

method seen	M1
3/8 cao	A1

Answer: **3/8**

Question 43

5/6 eaten seen	M1
1/6 cao	A1

Answer: **1/6**

Question 44

6/8 eaten seen	M1
1/4 cao	A1

Answer: **1/4**

Question 45

7/9 eaten seen	M1
2/9 cao	A1

Answer: **2/9**

Question 46

4/6 eaten seen	M1
1/3 cao	A1

Answer: **1/3**

Question 47

method seen	M1
6 cao	A1

Answer: **6**

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Question 48

2/5 cao	**B1**

Answer: **2/5**

Question 49

method seen	**M1**
4 cao	**A1**

Answer: **4**

Question 50

method seen	**M1**
5/2 cao	**A1**

Answer: **5/2**

Question 51

converts to a common denominator	**M1**
4 2/5 or 22/5 cao	**A1**

Answer: **4 2/5**

Question 52

45 / 5 = 9 seen	**M1**
72 cao	**A1**

Answer: **72**

Question 53

method seen	**M1**
2/3 cao	**A1**

Answer: **2/3**

Question 54

method seen	**M1**
11/12 cao	**A1**

Answer: **11/12**

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