4.9 Fractions: All Four Operations: 1-hour Pack

Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Write 31/6 as a mixed number.

Answer: ___

(2)

---

2 Write 2 2/10 as an improper fraction.

Answer: ___

(2)

---

3 2/10 of the cherries in a jar is 16. How many cherries are in the jar?

Answer: ___

(2)

---

4 Write 11/4 as a mixed number.

(1)

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5 A bottle is 3/5 full of juice. You add another 4/7 of the bottle. Is the bottle more than full? Work out the total and give your answer in simplest form.

(3)

---

6 Calculate (6/9) x (3/8). Simplify your answer.

(2)

---

7 1 1/2 + 5 1/2 =

Answer: ___

(2)

---

8 Work out 4 1/3 - 2 2/3. Show any subtraction of the fractional parts.

(2)

---

9 Callum eats 2/6 of a tray of flapjacks on Monday and 2/6 on Tuesday.

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

Answer: ___

(2)

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10 1 1/5 + 2 9/10 =

Answer: ___

(2)

---

11 Yusuf eats 1/12 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)

---

12 6/8 - 2/8 =

Answer: ___

(1)

---

13 3 3/5 + 5 7/10 =

Answer: ___

(2)

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14 2/10 + 1/2 =

Answer: ___

(2)

---

15 6/8 x 4/5 =

Answer: ___

(1)

---

16 Reece eats 2/9 of a tray of flapjacks on Monday and 3/9 on Tuesday.

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

Answer: ___

(2)

---

17 Work out 1/2 of £12.

Answer: ___

(1)

---

18 Work out 2 3/5 + 3 3/5.

Give your answer in its simplest form.

Answer: ___

(1)

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19 2/8 divided by 2 =

Answer: ___

(2)

---

20 Olu eats 3/9 of a ribbon on Monday and 1/9 on Tuesday.

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

Answer: ___

(2)

---

21 2/5 of the badges in a jar is 20. How many badges are in the jar?

Answer: ___

(2)

---

22 5 1/2 + 1 9/10 =

Answer: ___

(2)

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23 Hassan has 90 bricks. Hassan gives 1/10 of them to a friend.

How many bricks does Hassan give to the friend?

Answer: ___

(2)

---

24 4/6 x 2/3 =

Answer: ___

(1)

---

25 Write 2 2/5 as an improper fraction.

Answer: ___

(2)

---

26 1/4 of the cards in a jar is 3. How many cards are in the jar?

Answer: ___

(2)

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Mark scheme · 4.9 Fractions: All Four Operations: 1-hour Pack

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

Question 1

method seen	M1
5 1/6 cao	A1

Answer: **5 1/6**

Question 2

method seen	M1
22/10 cao	A1

Answer: **22/10**

Question 3

16 / 2 = 8 seen	M1
80 cao	A1

Answer: **80**

Question 4

2 3/4 cao	B1

Answer: **2 3/4**

Question 5

correct common denominator or conversion, e.g. 3/5 = 21/35, 4/7 = 20/35 then add to 41/35	M1
41/35 or 1 6/35 cao	A1
explicit yes, the bottle is more than full	B1

Answer: **1 6/35**

Question 6

correct multiplication with cancellation, e.g. cancel 6/9 to 2/3 then 2/3 x 3/8 = 2/8	M1
1/4 cao	A1

Answer: **1/4**

Question 7

method seen	M1
7 cao	A1

Answer: **7**

Question 8

correct conversion or borrowing for the mixed-number subtraction, e.g. 4 1/3 = 3 4/3 then 3 4/3 - 2 2/3 = 1 2/3	M1
1 2/3 or 5/3 cao	A1

Answer: **1 2/3**

Question 9

4/6 eaten seen	M1
1/3 cao	A1

Answer: **1/3**

Question 10

method seen	M1
4 1/10 or 41/10 cao	A1

Answer: **4 1/10**

Question 11

7/12 eaten seen	M1
5/12 cao	A1

Answer: **5/12**

Question 12

1/2 cao	B1

Answer: **1/2**

Question 13

method seen	M1
9 3/10 or 93/10 cao	A1

Answer: **9 3/10**

Question 14

method seen	M1
7/10 cao	A1

Answer: **7/10**

Question 15

3/5 cao	B1

Answer: **3/5**

Question 16

5/9 eaten seen	M1
4/9 cao	A1

Answer: **4/9**

Question 17

£6 cao	B1

Answer: **£6**

Question 18

6 1/5 or 31/5 cao	B1

Answer: **6 1/5**

Question 19

method seen	M1
1/8 cao	A1

Answer: **1/8**

Question 20

4/9 eaten seen	M1
5/9 cao	A1

Answer: **5/9**

Question 21

20 / 2 = 10 seen	M1
50 cao	A1

Answer: **50**

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Question 22

method seen	M1
7 2/5 or 37/5 cao	A1

Answer: **7 2/5**

Question 23

divides by the denominator	M1
9 cao	A1

Answer: **9**

Question 24

4/9 cao	B1

Answer: **4/9**

Question 25

method seen	M1
12/5 cao	A1

Answer: **12/5**

Question 26

3 x 4 seen	M1
12 cao	A1

Answer: **12**

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