1.9 Fractions: Adding and Subtracting: 2-hour Pack

Calculators not allowed · about 120 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Ravi has £2700. She spends 1/5 of it on a phone and 1/3 of it on clothes. How much does she have left?

(3)

---

2 Fill in the missing number.
3/7 = ?/28

(1)

---

3 Work out 1/2 + 1/3.
Give your answer in its simplest form.

(2)

---

4 Elena spends 1/4 of her savings on a phone and 1/3 of her savings on clothes. What fraction of her savings is left?

(3)

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5 Work out 5 2/3 - 2 1/8.
Give your answer as a mixed number in its simplest form.

(3)

---

6 Work out 2/3 - 2/7.
Give your answer in its simplest form.

(2)

---

7 Write 11/5 as a mixed number.

(1)

---

8 Work out 2/9 + 2/3.
Give your answer in its simplest form.

(2)

---

9 Work out 5 1/4 - 4 7/8.
Give your answer as a mixed number in its simplest form.

(3)

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10 Jack spends 1/2 of her savings on a phone and 1/4 of her savings on clothes. What fraction of her savings is left?

(3)

---

11 Write 5 1/4 as an improper fraction.

(1)

---

12 Work out 3 7/8 - 3 1/4.
Give your answer as a mixed number in its simplest form.

(3)

---

13 Work out 5/6 - 3/5.
Give your answer in its simplest form.

(2)

---

14 Add these mixed numbers: 2 1/2 + 2 2/3. Give your answer as a mixed number in simplest form.

(3)

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15 Fill in the missing number.
3/5 = ?/10

(1)

---

16 Work out 1/8 + 4/7.
Give your answer in its simplest form.

(2)

---

17 Work out 2 1/2 + 4 4/7.
Give your answer as a mixed number in its simplest form.

(3)

---

18 Fill in the missing number.
5/8 = ?/24

(1)

---

19 Priya spends 1/4 of her savings on a phone and 1/3 of her savings on clothes. What fraction of her savings is left?

(3)

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20 Work out 3 1/4 + 4 3/7.
Give your answer as a mixed number in its simplest form.

(3)

---

21 Write 3 4/5 as an improper fraction.

(1)

---

22 Work out 3/7 + 7/8.
Give your answer in its simplest form.

(2)

---

23 Fill in the missing number.
1/3 = ?/9

(1)

---

24 Work out 4 2/3 - 1 5/6. Give your answer in simplest form.

(4)

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25 Chloe spends 1/2 of her savings on a phone and 1/8 of her savings on clothes. What fraction of her savings is left?

(3)

---

26 Ravi has £700. She spends 1/2 of it on a phone and 1/5 of it on clothes. How much does she have left?

(3)

---

27 Work out 2/3 + 4/5.
Give your answer in its simplest form.

(2)

---

28 Write 32/5 as a mixed number.

(1)

---

29 Noah spends 1/5 of her savings on a phone and 1/6 of her savings on clothes. What fraction of her savings is left?

(3)

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30 Noah has £3200. She spends 1/4 of it on a phone and 1/5 of it on clothes. How much does she have left?

(3)

---

31 Quinn spends 1/3 of her savings on a phone and 1/6 of her savings on clothes. What fraction of her savings is left?

(3)

---

32 Fill in the missing number.
6/7 = ?/21

(1)

---

33 Work out 5/7 - 3/5.
Give your answer in its simplest form.

(2)

---

34 A recipe needs 1 3/4 cups of flour. Jake has already put in 2/3 cup. How much more flour does he need?

(2)

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35 Write 2 4/5 as an improper fraction.

(1)

---

36 Elena has £1296. She spends 1/4 of it on a phone and 1/6 of it on clothes. How much does she have left?

(3)

---

37 Write 6 1/7 as an improper fraction.

(1)

---

38 Work out 3 4/7 - 2 2/3.
Give your answer as a mixed number in its simplest form.

(3)

---

39 Fill in the missing number.
3/7 = ?/14

(1)

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40 Work out 4 3/8 + 1 1/4.
Give your answer as a mixed number in its simplest form.

(3)

---

41 Write 5/6 with denominator 18.

(1)

---

42 Work out and simplify: 3 1/6 - 1 3/4 + 2/3.

(3)

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Mark scheme · 1.9 Fractions: Adding and Subtracting: 2-hour Pack

Question 1

1/5 of £2700 = £540 or 1/3 of £2700 = £900	M1
subtracts both amounts from the total	M1
£1260 cao	A1

Answer: **£1260**

Question 2

12 cao	B1

Answer: **12**

Question 3

common denominator 6 used: 3/6 and 2/6	M1
5/6 cao	A1

Answer: **5/6**

Question 4

adds the two fractions using a common denominator (7/12)	M1
subtracts the total from 1	M1
5/12 cao	A1

Answer: **5/12**

Question 5

converts to improper fractions or deals with the whole numbers and fractions separately	M1
common denominator used and the operation carried out correctly	M1
3 13/24 cao	A1

Answer: **3 13/24**

Question 6

common denominator 21 used: 14/21 and 6/21	M1
8/21 cao	A1

Answer: **8/21**

Question 7

2 1/5 cao	B1

Answer: **2 1/5**

Question 8

common denominator 9 used: 2/9 and 6/9	M1
8/9 cao	A1

Answer: **8/9**

Question 9

converts to improper fractions or deals with the whole numbers and fractions separately	M1
common denominator used and the operation carried out correctly	M1
3/8 cao	A1

Answer: **3/8**

Question 10

adds the two fractions using a common denominator (3/4)	M1
subtracts the total from 1	M1
1/4 cao	A1

Answer: **1/4**

Question 11

21/4 cao	B1

Answer: **21/4**

Question 12

converts to improper fractions or deals with the whole numbers and fractions separately	M1
common denominator used and the operation carried out correctly	M1
5/8 cao	A1

Answer: **5/8**

Question 13

common denominator 30 used: 25/30 and 18/30	M1
7/30 cao	A1

Answer: **7/30**

Question 14

convert to improper fractions or add whole and fraction parts correctly	M1
add fractions with common denominator (1/2 = 3/6, 2/3 = 4/6) and convert to mixed number if needed	M1
5 1/6 cao	A1

Answer: **5 1/6**

Question 15

6 cao	B1

Answer: **6**

Question 16

common denominator 56 used: 7/56 and 32/56	M1
39/56 cao	A1

Answer: **39/56**

Question 17

converts to improper fractions or deals with the whole numbers and fractions separately	M1
common denominator used and the operation carried out correctly	M1
7 1/14 cao	A1

Answer: **7 1/14**

Question 18

15 cao	B1

Answer: **15**

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Question 19

adds the two fractions using a common denominator (7/12)	M1
subtracts the total from 1	M1
5/12 cao	A1

Answer: **5/12**

Question 20

converts to improper fractions or deals with the whole numbers and fractions separately	M1
common denominator used and the operation carried out correctly	M1
7 19/28 cao	A1

Answer: **7 19/28**

Question 21

19/5 cao	B1

Answer: **19/5**

Question 22

common denominator 56 used: 24/56 and 49/56	M1
1 17/56 or 73/56 cao	A1

Answer: **1 17/56**

Question 23

3 cao	B1

Answer: **3**

Question 24

convert mixed numbers to improper fractions (4 2/3 = 14/3, 1 5/6 = 11/6) or equivalent method	M1
use common denominator: 14/3 = 28/6 then 28/6 - 11/6	M1
calculate difference 17/6	M1
2 5/6 or 17/6 cao	A1

Answer: **2 5/6**

Question 25

adds the two fractions using a common denominator (5/8)	M1
subtracts the total from 1	M1
3/8 cao	A1

Answer: **3/8**

Question 26

1/2 of £700 = £350 or 1/5 of £700 = £140	M1
subtracts both amounts from the total	M1
£210 cao	A1

Answer: **£210**

Question 27

common denominator 15 used: 10/15 and 12/15	M1
1 7/15 or 22/15 cao	A1

Answer: **1 7/15**

Question 28

6 2/5 cao	B1

Answer: **6 2/5**

Question 29

adds the two fractions using a common denominator (11/30)	M1
subtracts the total from 1	M1
19/30 cao	A1

Answer: **19/30**

Question 30

1/4 of £3200 = £800 or 1/5 of £3200 = £640	M1
subtracts both amounts from the total	M1
£1760 cao	A1

Answer: **£1760**

Question 31

adds the two fractions using a common denominator (1/2)	M1
subtracts the total from 1	M1
1/2 cao	A1

Answer: **1/2**

Question 32

18 cao	B1

Answer: **18**

Question 33

common denominator 35 used: 25/35 and 21/35	M1
4/35 cao	A1

Answer: **4/35**

Question 34

convert to common denominator or convert mixed to improper, e.g. 1 3/4 = 7/4 and 2/3 = 8/12, 7/4=21/12	M1
13/12 or 1 1/12 cao	A1

Answer: **1 1/12**

Question 35

14/5 cao	B1

Answer: **14/5**

Question 36

1/4 of £1296 = £324 or 1/6 of £1296 = £216	M1
subtracts both amounts from the total	M1
£756 cao	A1

Answer: **£756**

Question 37

43/7 cao	B1

Answer: **43/7**

Question 38

converts to improper fractions or deals with the whole numbers and fractions separately	M1
common denominator used and the operation carried out correctly	M1
19/21 cao	A1

Answer: **19/21**

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Question 39

6 cao	**B1**

Answer: **6**

Question 40

converts to improper fractions or deals with the whole numbers and fractions separately	**M1**
common denominator used and the operation carried out correctly	**M1**
5 5/8 cao	**A1**

Answer: **5 5/8**

Question 41

15/18 cao	**B1**

Answer: **15/18**

Question 42

correctly converts all three values to twelfths, 38/12, 21/12 and 8/12	**M1**
correctly combines the numerators, 38 - 21 + 8 = 25	**M1**
2 1/12 or 25/12 cao	**A1**

Answer: **2 1/12**

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