1.9 Fractions: Adding and Subtracting: 1-hour Pack

Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out and simplify: 2 3/5 + 4 4/5 - 1 7/10.

(4)

2 Calculate and simplify where possible: 1/2 + 1/6.

(2)

3 Fill in the missing number.
7/8 = ?/40

(1)

4 Work out 3 2/7 - 2 1/2.
Give your answer as a mixed number in its simplest form.

(3)

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5 Orla spends 1/2 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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6 Fill in the missing number.
6/7 = ?/14

(1)

---

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

(3)

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8 Work out 1/4 + 1/3.
Give your answer in its simplest form.

(2)

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9 Fill in the missing number.
2/3 = ?/6

(1)

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

(3)

---

11 Work out 4/9 + 2/3.
Give your answer in its simplest form.

(2)

---

12 Add or subtract. Give your answers in simplest form.

(a) 3/8 + 1/4 **(1)**

.....

(b) 7/10 - 1/5 **(1)**

.....

(c) 5/12 + 1/3 **(1)**

.....

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13 Work out 6/7 + 3/4.
Give your answer in its simplest form.

(2)

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14 Chloe has £1728. She spends 1/3 of it on a phone and 1/8 of it on clothes. How much does she have left?

(3)

---

15 Chloe spends 1/5 of her savings on a phone and 1/8 of her savings on clothes. What fraction of her savings is left?

(3)

---

16 Fill in the missing number.
2/3 = ?/15

(1)

---

17 Work out 7/10 - 1/2.
Give your answer in its simplest form.

(2)

---

18 Write each mixed number as an improper fraction.

(a) Write 2 1/3 as an improper fraction. **(1)**

(b) Write 3 2/5 as an improper fraction. **(1)**

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19 Write this as a fraction in simplest form: 7/8 - 1/4.

(2)

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20 Three friends paint a fence together. Priya paints 2/5 of the fence and Sam paints 3/10 of the fence. Alex paints the rest. What fraction of the fence does Alex paint? Give your answer in simplest form.

(3)

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21 Calculate and simplify where possible: 3/5 - 1/10.

(1)

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Mark scheme · 1.9 Fractions: Adding and Subtracting: 1-hour Pack

Question 1

convert mixed to improper: 13/5, 24/5, 17/10 or equivalent	M1
use common denominator 10: 26/10 + 48/10 - 17/10	M1
calculate result 57/10	M1
5 7/10 or 57/10 cao	A1

Answer: **5 7/10**

Question 2

correct common denominator or method, e.g. 1/2 = 3/6 then 3/6 + 1/6	M1
2/3 cao	A1

Answer: **2/3**

Question 3

35 cao	B1

Answer: **35**

Question 4

converts to improper fractions or deals with the whole numbers and fractions separately	M1
common denominator used and the operation carried out correctly	M1
11/14 cao	A1

Answer: **11/14**

Question 5

adds the two fractions using a common denominator (2/3)	M1
subtracts the total from 1	M1
1/3 cao	A1

Answer: **1/3**

Question 6

12 cao	B1

Answer: **12**

Question 7

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 7/12 cao	A1

Answer: **5 7/12**

Question 8

common denominator 12 used: 3/12 and 4/12	M1
7/12 cao	A1

Answer: **7/12**

Question 9

4 cao	B1

Answer: **4**

Question 10

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 5/8 cao	A1

Answer: **7 5/8**

Question 11

common denominator 9 used: 4/9 and 6/9	M1
1 1/9 or 10/9 cao	A1

Answer: **1 1/9**

Question 12

(a) 5/8 cao	B1

(a) Answer: **5/8**

(b) 1/2 cao	B1

(b) Answer: **1/2**

(c) 9/12 or simplified 3/4 cao	B1

(c) Answer: **3/4**

Question 13

common denominator 28 used: 24/28 and 21/28	M1
1 17/28 or 45/28 cao	A1

Answer: **1 17/28**

Question 14

1/3 of £1728 = £576 or 1/8 of £1728 = £216	M1
subtracts both amounts from the total	M1
£936 cao	A1

Answer: **£936**

Question 15

adds the two fractions using a common denominator (13/40)	M1
subtracts the total from 1	M1
27/40 cao	A1

Answer: **27/40**

Question 16

10 cao	B1

Answer: **10**

Question 17

common denominator 10 used: 7/10 and 5/10	M1
1/5 cao	A1

Answer: **1/5**

Question 18

(a) 7/3 cao	B1

(a) Answer: **7/3**

(b) 17/5 cao	B1

(b) Answer: **17/5**

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Question 19

correctly converts to eighths, 7/8 and 2/8	**M1**
5/8 cao	**A1**

Answer: **5/8**

Question 20

correctly converts to tenths, 4/10 and 3/10	**M1**
correctly finds the total painted by Priya and Sam, 7/10, and subtracts from 1	**M1**
3/10 cao	**A1**

Answer: **3/10**

Question 21

1/2 cao	**B1**

Answer: **1/2**

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