4.7 Fractions: Comparing, Adding and Subtracting: 30-minute Pack

Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 2 1/3 + 2 5/12.

Give your answer in its simplest form.

Answer: ___

(1)

---

2 Work out 4 3/4 - 2 7/12.

Give your answer in its simplest form.

Answer: ___

(2)

---

3 Work out 3 2/3 + 1 2/3.

Give your answer in its simplest form.

Answer: ___

(1)

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4 Sam ate 5/12 of a pizza and Mia ate 1/3 of the same pizza. How much of the pizza was eaten altogether? Give your answer in simplest form.

(2)

---

5 Which fraction is equivalent to 5/12?

A: 10/25 B: 11/24 C: 10/24 D: 7/14

Write the letter.

Answer: ___

(1)

---

6 Work out 4/6 of £90.

Answer: ___

(1)

---

7 Kofi eats 5/12 of a cake on Monday and 1/12 on Tuesday.

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

Answer: ___

(2)

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8 Work out 9/10 - 4/5.

Give your answer in its simplest form.

Answer: ___

(1)

---

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

1/10, 6/10, 2/10

Answer: ___

(1)

---

10 Write 38/8 as a mixed number.

Answer: ___

(1)

---

11 Quinn eats 2/9 of a ribbon on Monday and 4/9 on Tuesday.

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

Answer: ___

(2)

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12 3/5 = ___/10

Answer: ___

(1)

---

13 Work out 1/4 of 16 m.

Answer: ___

(1)

---

14 Write these fractions in order, starting with the largest.

1/2, 1/4, 4/10

Answer: ___

(1)

---

15 Work out 5/6 - 1/2.

Give your answer in its simplest form.

Answer: ___

(1)

---

16 Explain why 4/6 is greater than 3/5. Give a short written reason.

(2)

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17 Write <, > or = in the box.

4/7 [ ] 9/10

Answer: ___

(1)

---

18 Complete: 5/12 + 1/12 = ?

(2)

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Mark scheme · 4.7 Fractions: Comparing, Adding and Subtracting: 30-minute Pack

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

Question 1

4 3/4 or 19/4 cao	B1

Answer: **4 3/4**

Question 2

converts to a common denominator	M1
2 1/6 or 13/6 cao	A1

Answer: **2 1/6**

Question 3

5 1/3 or 16/3 cao	B1

Answer: **5 1/3**

Question 4

Convert 1/3 to 4/12 and add to 5/12	M1
9/12 or 3/4 cao	B1

Answer: **3/4**

Question 5

C cao	B1

Answer: **C**

Question 6

£60 cao	B1

Answer: **£60**

Question 7

6/12 eaten seen	M1
1/2 cao	A1

Answer: **1/2**

Question 8

1/10 cao	B1

Answer: **1/10**

Question 9

1/10, 2/10, 6/10 cao	B1

Answer: **1/10, 2/10, 6/10**

Question 10

4 6/8 cao	B1

Answer: **4 6/8**

Question 11

6/9 eaten seen	M1
1/3 cao	A1

Answer: **1/3**

Question 12

6 cao	B1

Answer: **6**

Question 13

4 m cao	B1

Answer: **4 m**

Question 14

1/2, 4/10, 1/4 cao	B1

Answer: **1/2, 4/10, 1/4**

Question 15

1/3 cao	B1

Answer: **1/3**

Question 16

Shows method to compare, e.g. convert to common denominator 30: 4/6 = 20/30 and 3/5 = 18/30 or compares decimals	M1
Conclusion that 4/6 > 3/5 with correct reason, e.g. 20/30 > 18/30	B1

Answer: **4/6 is greater because 4/6 = 20/30 and 3/5 = 18/30, and 20/30 > 18/30.**

Question 17

< cao	B1

Answer: **<**

Question 18

Adds numerators with same denominator seen (5 + 1 = 6)	M1
6/12 or 1/2 cao	B1

Answer: **1/2**

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