4.3 Fractions: Equivalence, Ordering and Calculation: 1-hour Pack

NCETM National Curriculum (2014) Mathematics - KS2 Number: Fractions (Equivalence, Ordering and Calculation) · Calculators not allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 9/10 of a number is 9. What is the number?

Answer: ___

(1)

---

2 Write 21/8 as a mixed number.

Answer: ___

(1)

---

3 Priya is baking scones. One batch of scones uses 2/5 of a bag of flour. Priya has 3/4 of a bag of flour.

(a) How many complete batches of scones can Priya make? **(2)**

(b) What fraction of a bag of flour will be left over after making the complete batches? **(1)**

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4 Work out 1/2 of £20.

Answer: ___

(1)

---

5 1/5 divided by 4 =

Answer: ___

(2)

---

6 2/3 of the beads in a jar is 8. How many beads are in the jar?

Answer: ___

(2)

---

7 1/2 - 3/12 =

Answer: ___

(1)

---

8 Write <, > or = in the box.

4/5 [ ] 2/6

Answer: ___

(2)

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9 Work out 3 1/2 - 2 1/2.

Give your answer in its simplest form.

Answer: ___

(1)

---

10 5 1/2 + 1 1/2 =

Answer: ___

(2)

---

11 Write <, > or = in the box.

3/7 [ ] 9/12

Answer: ___

(2)

---

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

(3)

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13 Work out 5 1/6 - 2 5/6. Give your answer as a mixed number in its simplest form.

(3)

---

14 Write 4 5/6 as an improper fraction.

Answer: ___

(2)

---

15 Work out 3/4 - 1/2.

Give your answer in its simplest form.

Answer: ___

(1)

---

16 Write 3/9 in its simplest form.

Answer: ___

(2)

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17 Tom has 38 stars. Tom gives 1/2 of them to a friend.

How many stars does Tom give to the friend?

Answer: ___

(1)

---

18 1/5 x 4 =

Answer: ___

(1)

---

19 Reece eats 5/12 of a pie on Monday and 1/12 on Tuesday.

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

Answer: ___

(2)

---

20 Write 17/4 as a mixed number.

Answer: ___

(2)

---

21 4/5 - 2/5 =

Answer: ___

(1)

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22 Work out 1/10 of 110 minutes.

Answer: ___

(2)

---

23 Kiran eats 6/12 of a bar of chocolate on Monday and 5/12 on Tuesday.

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

Answer: ___

(2)

---

24 Oscar has 80 grapes. Oscar gives 2/5 of them to a friend.

How many grapes does Oscar give to the friend?

Answer: ___

(1)

---

25 Write <, > or = in the box.

4/5 [ ] 5/8

Answer: ___

(2)

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26 4/5 = 16/___

Answer: ___

(1)

---

27 1 6/8 + 2 4/8 =

Answer: ___

(1)

---

28 Which fraction is equivalent to 2/3?

A: 9/12 B: 8/12 C: 6/7 D: 8/13

Write the letter.

Answer: ___

(1)

---

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

1/2, 5/8, 3/8

Answer: ___

(1)

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Mark scheme · 4.3 Fractions: Equivalence, Ordering and Calculation: 1-hour Pack

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

Question 1

10 cao — **B1**

Answer: **10**

Question 2

2 5/8 cao — **B1**

Answer: **2 5/8**

Question 3

(a) correct comparison or division method, e.g. (3/4) / (2/5) = 15/8 oe — **M1**

(a) 1 complete batch cao — **A1**

(a) Answer: **1 complete batch**

(b) 7/20 cao (ft from part a if one batch used) — **B1**

(b) Answer: **7/20**

Question 4

£10 cao — **B1**

Answer: **£10**

Question 5

method seen — **M1**

1/20 cao — **A1**

Answer: **1/20**

Question 6

8 / 2 = 4 seen — **M1**

12 cao — **A1**

Answer: **12**

Question 7

1/4 cao — **B1**

Answer: **1/4**

Question 8

common denominator seen — **M1**

> cao — **A1**

Answer: **>**

Question 9

1 cao — **B1**

Answer: **1**

Question 10

method seen — **M1**

7 cao — **A1**

Answer: **7**

Question 11

common denominator seen — **M1**

< cao — **A1**

Answer: **<**

Question 12

common denominator of 12 used — **M1**

6/12 + 4/12 + 3/12 = 13/12 seen — **M1**

1 1/12 cao — **A1**

Answer: **1 1/12**

Question 13

recognises that 1/6 is less than 5/6 and regroups, e.g. 5 1/6 = 4 7/6 — **M1**

4 7/6 - 2 5/6 = 2 2/6 oe seen — **M1**

2 1/3 cao — **A1**

Answer: **2 1/3**

Question 14

method seen — **M1**

29/6 cao — **A1**

Answer: **29/6**

Question 15

1/4 cao — **B1**

Answer: **1/4**

Question 16

divides numerator and denominator by a common factor — **M1**

1/3 cao — **A1**

Answer: **1/3**

Question 17

19 cao — **B1**

Answer: **19**

Question 18

4/5 cao — **B1**

Answer: **4/5**

Question 19

6/12 eaten seen — **M1**

1/2 cao — **A1**

Answer: **1/2**

Question 20

method seen — **M1**

4 1/4 cao — **A1**

Answer: **4 1/4**

Question 21

2/5 cao — **B1**

Answer: **2/5**

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Question 22

divides by the denominator	**M1**
11 minutes cao	**A1**

Answer: **11 minutes**

Question 23

11/12 eaten seen	**M1**
1/12 cao	**A1**

Answer: **1/12**

Question 24

32 cao	**B1**

Answer: **32**

Question 25

common denominator seen	**M1**
> cao	**A1**

Answer: **>**

Question 26

20 cao	**B1**

Answer: **20**

Question 27

4 1/4 or 17/4 cao	**B1**

Answer: **4 1/4**

Question 28

B cao	**B1**

Answer: **B**

Question 29

3/8, 1/2, 5/8 cao	**B1**

Answer: **3/8, 1/2, 5/8**

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