4.3 Fractions: Equivalence, Ordering and Calculation: 2-hour Pack

NCETM National Curriculum (2014) Mathematics - KS2 Number: Fractions (Equivalence, Ordering and Calculation) · Calculators not allowed · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 1/3 divided by 2 =

Answer: ___

(2)

---

2 8/10 of a number is 16. What is the number?

Answer: ___

(1)

---

3 Yusuf eats 2/10 of a pizza on Monday and 2/10 on Tuesday.

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

Answer: ___

(2)

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4 Work out 2 1/3 + 1 5/6.

Give your answer in its simplest form.

Answer: ___

(1)

---

5 Nia eats 2/6 of a cake on Monday and 1/6 on Tuesday.

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

Answer: ___

(2)

---

6 1/3 x 4/6 =

Answer: ___

(2)

---

7 Mia eats 6/12 of a pie on Monday and 5/12 on Tuesday.

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

Answer: ___

(2)

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8 Callum has 30 cherries. Callum gives 5/6 of them to a friend.

How many cherries does Callum give to the friend?

Answer: ___

(1)

---

9 4/5 - 3/5 =

Answer: ___

(2)

---

10 Work out 1 2/5 + 1 1/2.

Give your answer in its simplest form.

Answer: ___

(3)

---

11 Work out 3/8 of 96.

(2)

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12 Write 24/40 in its simplest form.

Answer: ___

(2)

---

13 Write <, > or = in the box.

3/5 [ ] 3/6

Answer: ___

(2)

---

14 3/10 of the cherries in a jar is 12. How many cherries are in the jar?

Answer: ___

(2)

---

15 Write 12/15 in its simplest form.

Answer: ___

(2)

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16 1/2 x 5/6 =

Answer: ___

(1)

---

17 Write <, > or = in the box.

1/2 [ ] 2/5

Answer: ___

(2)

---

18 Reece has 28 buttons. Reece gives 1/2 of them to a friend.

How many buttons does Reece give to the friend?

Answer: ___

(1)

---

19 Add and subtract these fractions, giving each answer in its simplest form.

(a) 3/10 + 4/10 **(1)**

.....

(b) 5/6 - 1/4 **(2)**

.....

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20 Write 5/15 in its simplest form.

Answer: ___

(2)

---

21 Work out 1/3 + 1/2.

Give your answer in its simplest form.

Answer: ___

(3)

---

22 1/4 of the cards in a jar is 7. How many cards are in the jar?

Answer: ___

(2)

---

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

Give your answer in its simplest form.

Answer: ___

(1)

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24 Work out 4 1/6 + 2 1/3.

Give your answer in its simplest form.

Answer: ___

(2)

---

25 2/12 + 2/8 =

Answer: ___

(2)

---

26 3/4 = 18/___

Answer: ___

(1)

---

27 7/8 divided by 6 =

Answer: ___

(1)

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28 Which fraction is equivalent to 5/6?

A: 7/8 B: 11/12 C: 10/12 D: 10/13

Write the letter.

Answer: ___

(1)

---

29 3 3/4 + 1 5/8 =

Answer: ___

(2)

---

30 Work out 3/4 + 7/8.

Give your answer in its simplest form.

Answer: ___

(1)

---

31 Work out 4 2/3 + 1 5/6.

Give your answer in its simplest form.

Answer: ___

(2)

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32 2 1/2 + 5 1/2 =

Answer: ___

(2)

---

33 Write <, > or = in the box.

1/2 [ ] 1/5

Answer: ___

(2)

---

34 Write <, > or = in the box.

4/5 [ ] 2/8

Answer: ___

(1)

---

35 Mia eats 1/12 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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36 5/10 + 1/2 =

Answer: ___

(1)

---

37 Work out 5/6 x 4. Give your answer as a mixed number in its simplest form.

(2)

---

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

Give your answer in its simplest form.

Answer: ___

(2)

---

39 Aaron eats 1/12 of a tray of flapjacks on Monday and 1/12 on Tuesday.

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

Answer: ___

(2)

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40 Write <, > or = in the box.

4/7 [ ] 3/10

Answer: ___

(2)

---

41 4/10 of the apples in a jar is 36. How many apples are in the jar?

Answer: ___

(2)

---

42 1/2 + 6/8 =

Answer: ___

(1)

---

43 Work out 4 3/5 - 2 1/10.

Give your answer in its simplest form.

Answer: ___

(2)

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44 Daisy has 42 shells. Daisy gives 1/3 of them to a friend.

How many shells does Daisy give to the friend?

Answer: ___

(2)

---

45 Work out 1 3/4 - 1 1/2.

Give your answer in its simplest form.

Answer: ___

(2)

---

46 Write 2 2/4 as an improper fraction.

Answer: ___

(1)

---

47 Work out 2/3 x 3/5. Give your answer in its simplest form.

(2)

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48 7/8 x 1/6 =

Answer: ___

(2)

---

49 2 1/8 + 5 1/2 =

Answer: ___

(1)

---

50 Ivan eats 1/10 of a pizza on Monday and 2/10 on Tuesday.

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

Answer: ___

(2)

---

51 Write <, > or = in the box.

1/3 [ ] 1/4

Answer: ___

(2)

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52 Work out 3 1/2 + 2 3/4.

Give your answer in its simplest form.

Answer: ___

(2)

---

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

4/10, 3/10, 2/4

Answer: ___

(1)

---

54 Work out 3 1/5 + 1 4/5.

Give your answer in its simplest form.

Answer: ___

(2)

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Mark scheme · 4.3 Fractions: Equivalence, Ordering and Calculation: 2-hour Pack

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

Question 1

method seen	M1
1/6 cao	A1

Answer: **1/6**

Question 2

20 cao	B1

Answer: **20**

Question 3

4/10 eaten seen	M1
3/5 cao	A1

Answer: **3/5**

Question 4

4 1/6 or 25/6 cao	B1

Answer: **4 1/6**

Question 5

3/6 eaten seen	M1
1/2 cao	A1

Answer: **1/2**

Question 6

method seen	M1
2/9 cao	A1

Answer: **2/9**

Question 7

11/12 eaten seen	M1
1/12 cao	A1

Answer: **1/12**

Question 8

25 cao	B1

Answer: **25**

Question 9

method seen	M1
1/5 cao	A1

Answer: **1/5**

Question 10

converts to a common denominator	M1
one correct fraction seen	M1
2 9/10 or 29/10 cao	A1

Answer: **2 9/10**

Question 11

96/8 = 12 seen (or equivalent method)	M1
36 cao	A1

Answer: **36**

Question 12

divides numerator and denominator by a common factor	M1
3/5 cao	A1

Answer: **3/5**

Question 13

common denominator seen	M1
> cao	A1

Answer: **>**

Question 14

12 / 3 = 4 seen	M1
40 cao	A1

Answer: **40**

Question 15

divides numerator and denominator by a common factor	M1
4/5 cao	A1

Answer: **4/5**

Question 16

5/12 cao	B1

Answer: **5/12**

Question 17

common denominator seen	M1
> cao	A1

Answer: **>**

Question 18

14 cao	B1

Answer: **14**

Question 19

(a) 7/10 cao	B1

(a) Answer: **7/10**

(b) common denominator of 12 used, e.g. 10/12 - 3/12	M1
(b) 7/12 cao	A1

(b) Answer: **7/12**

Question 20

divides numerator and denominator by a common factor	M1
1/3 cao	A1

Answer: **1/3**

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Question 21

converts to a common denominator **M1**
one correct fraction seen **M1**
5/6 cao **A1**
Answer: **5/6**

Question 22

7 x 4 seen **M1**
28 cao **A1**
Answer: **28**

Question 23

2 1/6 or 13/6 cao **B1**
Answer: **2 1/6**

Question 24

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

Question 25

method seen **M1**
5/12 cao **A1**
Answer: **5/12**

Question 26

24 cao **B1**
Answer: **24**

Question 27

7/48 cao **B1**
Answer: **7/48**

Question 28

C cao **B1**
Answer: **C**

Question 29

method seen **M1**
5 3/8 or 43/8 cao **A1**
Answer: **5 3/8**

Question 30

1 5/8 or 13/8 cao **B1**
Answer: **1 5/8**

Question 31

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

Question 32

method seen **M1**
8 cao **A1**
Answer: **8**

Question 33

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

Question 34

> cao **B1**
Answer: **>**

Question 35

2/12 eaten seen **M1**
5/6 cao **A1**
Answer: **5/6**

Question 36

1 cao **B1**
Answer: **1**

Question 37

20/6 oe seen **M1**
3 1/3 cao **A1**
Answer: **3 1/3**

Question 38

converts to a common denominator **M1**
6 cao **A1**
Answer: **6**

Question 39

2/12 eaten seen **M1**
5/6 cao **A1**
Answer: **5/6**

Question 40

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

Question 41

36 / 4 = 9 seen **M1**
90 cao **A1**
Answer: **90**

Question 42

1 1/4 or 5/4 cao **B1**
Answer: **1 1/4**

Question 43

converts to a common denominator **M1**
2 1/2 or 5/2 cao **A1**
Answer: **2 1/2**

Question 44

divides by the denominator **M1**
14 cao **A1**
Answer: **14**

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Question 45

converts to a common denominator	M1
1/4 cao	A1

Answer: **1/4**

Question 46

10/4 cao	B1

Answer: **10/4**

Question 47

6/15 oe seen	M1
2/5 cao	A1

Answer: **2/5**

Question 48

method seen	M1
7/48 cao	A1

Answer: **7/48**

Question 49

7 5/8 or 61/8 cao	B1

Answer: **7 5/8**

Question 50

3/10 eaten seen	M1
7/10 cao	A1

Answer: **7/10**

Question 51

common denominator seen	M1
> cao	A1

Answer: **>**

Question 52

converts to a common denominator	M1
6 1/4 or 25/4 cao	A1

Answer: **6 1/4**

Question 53

2/4, 4/10, 3/10 cao	B1

Answer: **2/4, 4/10, 3/10**

Question 54

converts to a common denominator	M1
5 cao	A1

Answer: **5**

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