4.5 Introduction to Fractions: 30-minute Pack

Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A bar is divided into 8 equal parts. 3 parts are shaded.

What fraction of the bar is not shaded?

Answer: ___

(1)

---

2 Which fraction is equivalent to 1/3?

A: 6/15 B: 5/15 C: 5/16 D: 6/8

Write the letter.

Answer: ___

(1)

---

3 8/10 of the balloons in a jar is 16. How many balloons are in the jar?

Answer: ___

(2)

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4 Write <, > or = in the box.

1/4 [ ] 1/9

Answer: ___

(2)

---

5 1/4 = 6/___

Answer: ___

(1)

---

6 3/6 of the crayons in a jar is 33. How many crayons are in the jar?

Answer: ___

(2)

---

7 Mateo eats 2/8 of a pie on Monday and 4/8 on Tuesday.

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

Answer: ___

(2)

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8 Work out 4/5 of 50.

Answer: ___

(2)

---

9 What is 1/4 of 36?

Answer: ___

(1)

---

10 Work out 5/6 - 1/4.

Give your answer in its simplest form.

Answer: ___

(2)

---

11 There are 15 stickers. 3/15 are red. How many stickers are red? Give the fraction in simplest form too.

(2)

---

12 Explain which fraction is larger: 1/4 or 1/3. Write a short explanation.

(2)

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

1/2, 2/10, 4/5

Answer: ___

(2)

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14 A cake is cut into 6 equal slices. Noah eats 2 slices and Erin eats 1 slice. What fraction of the cake is left?

(2)

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Mark scheme · 4.5 Introduction to Fractions: 30-minute Pack

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

Question 1

5/8 cao	B1

Answer: **5/8**

Question 2

B cao	B1

Answer: **B**

Question 3

16 / 8 = 2 seen	M1
20 cao	A1

Answer: **20**

Question 4

common denominator seen	M1
> cao	A1

Answer: **>**

Question 5

24 cao	B1

Answer: **24**

Question 6

33 / 3 = 11 seen	M1
66 cao	A1

Answer: **66**

Question 7

6/8 eaten seen	M1
1/4 cao	A1

Answer: **1/4**

Question 8

50 divided by 5 = 10 seen	M1
40 cao	A1

Answer: **40**

Question 9

9 cao	B1

Answer: **9**

Question 10

converts to a common denominator	M1
7/12 cao	A1

Answer: **7/12**

Question 11

15 × (3/15) or 15 ÷ 15 × 3 seen	M1
3 stickers and simplest form 1/5 given cao	B1

Answer: **3 and 1/5**

Question 12

identifies 1/3 as larger or 1/4 as smaller	B1
reason given, e.g. 1/3 is larger because the whole is split into fewer pieces so each piece is bigger oe	B1

Answer: **1/3 is larger because the whole is split into 3 parts so each part is bigger than a quarter**

Question 13

converts to a common denominator or decimals	M1
2/10, 1/2, 4/5 cao	A1

Answer: **2/10, 1/2, 4/5**

Question 14

3/6 calculation seen or equivalent (6 - (2+1) = 3 slices left) seen	M1
1/2 cao after simplifying 3/6	B1

Answer: **1/2**

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