2.3-2 Fractions: Practice Set 2: 30-minute Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 7 1/4 - 3 5/6, giving your answer as a mixed number in its simplest form.

(3)

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2 Work out 3/5 x 5/9, giving your answer in its simplest form.

- ☐ A) 1/3
- ☐ B) 8/14
- ☐ C) 15/45
- ☐ D) 1/9
- ☐ E) 2/3

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3 Work out 2 1/3 x 1 3/4, giving your answer as a mixed number in its simplest form.

(3)

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4 Work out 4/9 / 2/3, giving your answer in its simplest form.

- ☐ A) 2/3
- ☐ B) 8/27
- ☐ C) 3/2
- ☐ D) 12/18
- ☐ E) 2/9

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5 Work out 3 3/5 / 1 1/5, giving your answer as a whole number.

(3)

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6 A swimming lesson lasts 156 minutes in total across a half-term block. Find 7/12 of 156 minutes.

(2)

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7 Write 0.44 as a fraction in its simplest form.

(2)

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8 Find the missing number: 5/8 = ?/32

- ☐ A) 4
- ☐ B) 20
- ☐ C) 27
- ☐ D) 37
- ☐ E) 40

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9 Write 9/20 as a percentage.

- ☐ A) 9%
- ☐ B) 20%
- ☐ C) 45%
- ☐ D) 90%
- ☐ E) 29%

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10 A market stall in Newport sells 180 punnets of strawberries one Saturday. By midday, 2/5 of the punnets have been sold. Of the punnets that remain, 1/4 are sold during the afternoon. How many punnets are left unsold at the end of the day?

(4)

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11 2/7 of a number is 26. Find 3/4 of the same number.

(4)

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12 Calculate (3/4 - 1/6) / (5/8 + 1/4), giving your answer as a fraction in its simplest form.

(4)

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13 Write these fractions in order of size, smallest first: 2/5, 1/2, 3/10

(2)

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14 Which of these fractions is NOT equivalent to 2/3?

- ☐ A) 4/6
- ☐ B) 6/9
- ☐ C) 8/12
- ☐ D) 10/16
- ☐ E) 10/15

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Mark scheme · 2.3-2 Fractions: Practice Set 2: 30-minute Pack

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

Question 1

common denominator of 12 used, e.g. 7 3/12 - 3 10/12	**M1**
correct handling of borrowing, e.g. 6 15/12 - 3 10/12	**M1**
3 5/12 cao	**A1**

Answer: 3 5/12

Question 2

A) 1/3 cao	**B1**

Answer: 1/3

Question 3

both mixed numbers converted to improper fractions, e.g. 7/3 and 7/4	**M1**
49/12 seen, or equivalent complete method	**M1**
4 1/12 cao	**A1**

Answer: 4 1/12

Question 4

A) 2/3 cao	**B1**

Answer: 2/3

Question 5

both mixed numbers converted to improper fractions, e.g. 18/5 and 6/5	**M1**
18/5 x 5/6 seen (flip and multiply)	**M1**
3 cao	**A1**

Answer: 3

Question 6

156 / 12 (= 13) seen	**M1**
91 (minutes) cao	**A1**

Answer: 91 minutes

Question 7

44/100 seen	**M1**
11/25 cao	**A1**

Answer: 11/25

Question 8

B) 20 cao	**B1**

Answer: B) 20

Question 9

C) 45% cao	**B1**

Answer: 45%

Question 10

2/5 x 180 (= 72) seen	**M1**
108 punnets remaining after midday	**A1**
1/4 x 108 (= 27), ft from remaining punnets	**M1**
81 (punnets) cao	**A1**

Answer: 81 punnets

Question 11

26 / 2 x 7, or equivalent complete method to find the whole number	**M1**
91 identified as the number	**A1**
3/4 x 91, ft from the number found	**M1**
273/4 oe 68 1/4 cao	**A1**

Answer: 273/4 (68 1/4)

Question 12

3/4 - 1/6 (= 7/12) evaluated correctly	**M1**
5/8 + 1/4 (= 7/8) evaluated correctly	**M1**
7/12 x 8/7 seen (flip and multiply)	**M1**
2/3 cao	**A1**

Answer: 2/3

Question 13

all three fractions converted to a common denominator (e.g. tenths: 4/10, 5/10, 3/10)	**M1**
3/10, 2/5, 1/2 cao, in this order	**A1**

Answer: 3/10, 2/5, 1/2

Question 14

D) 10/16 cao (10/16 = 5/8, not 2/3)	**B1**

Answer: D) 10/16

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