# 2.3-4 Fractions: Practice Set 4: 10-minute Pack

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

## Fractions: Practice Set 4

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A fourth original 11+ fractions practice set, complementing EP.M3 (Fractions), EP.M3B (Fractions: Practice Set 2), EP.M30 and EP.M36 (Fractions, Decimals and Percentages Depth) and EP.M47 (Fractions: Practice Set 3). It covers equivalence, simplifying, ordering, converting between mixed numbers and improper fractions, all four operations with proper fractions and mixed numbers, finding fractions of an amount, and worded and multi-step reasoning problems. Questions are ramped from straightforward warm-up items to demanding multi-step problems designed to stretch the strongest candidates.

**1** Work out 5/6 - 7/15, giving your answer in its simplest form.

**(2)**

**2** Find 9/13 of 143.

- ☐ A) 88
- ☐ B) 91
- ☐ C) 99
- ☐ D) 108
- ☐ E) 117


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**3** Meera, a tailor in Derby, buys 96 metres of fabric. She uses 5/8 of the fabric to make curtains. How many metres of fabric does she use for the curtains?

**(2)**

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**4** Write these fractions in order of size, smallest first: 3/4, 2/5, 7/10, 9/20

**(2)**

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**5** Which of these is closest in value to 1/3?

- ☐ A) 2/7
- ☐ B) 7/20
- ☐ C) 4/11
- ☐ D) 5/16
- ☐ E) 3/8

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**6** Simplify 27/36 fully.

- ☐ A) 2/3
- ☐ B) 3/4
- ☐ C) 4/3
- ☐ D) 3/5
- ☐ E) 9/12

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**7** Which of these fractions is NOT equivalent to 5/9?

- ☐ A) 10/18
- ☐ B) 15/27
- ☐ C) 20/36
- ☐ D) 24/36
- ☐ E) 25/45


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# Mark scheme · 2.3-4 Fractions: Practice Set 4: 10-minute Pack

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

## Question 1

| | |
|---|---|
| both fractions converted to a common denominator, e.g. 25/30 - 14/30 | **M1** |
| 11/30 cao | **A1** |

**Answer: 11/30**

## Question 2

| | |
|---|---|
| 143 / 13 (= 11) seen | **M1** |
| C) 99 cao | **A1** |

**Answer: C) 99**

## Question 3

| | |
|---|---|
| 96 / 8 (= 12) seen | **M1** |
| 60 metres cao | **A1** |

**Answer: 60 metres**

## Question 4

| | |
|---|---|
| all four fractions converted to a common denominator (e.g. twentieths: 15/20, 8/20, 14/20, 9/20) | **M1** |
| 2/5, 9/20, 7/10, 3/4 cao, in this order | **A1** |

**Answer: 2/5, 9/20, 7/10, 3/4**

## Question 5

| | |
|---|---|
| B) 7/20 cao | **B1** |

**Answer: B) 7/20**

## Question 6

| | |
|---|---|
| B) 3/4 cao (HCF of 27 and 36 is 9) | **B1** |

**Answer: B) 3/4**

## Question 7

| | |
|---|---|
| D) 24/36 cao (24/36 = 2/3, not 5/9) | **B1** |

**Answer: D) 24/36**


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