1.10 Fractions: Multiplying and Dividing: 30-minute Pack

Calculators not allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 3 2/3 x 1 3/5.
Give your answer as a mixed number or fraction in its simplest form.

(3)

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2 Work out 4/9 ÷ 3/11.
Give your answer in its simplest form.

(2)

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3 Work out 5/9 of 126.

(2)

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4 Work out 2/7 ÷ 3/4.
Give your answer in its simplest form.

(2)

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5 2/5 of the stickers is 10. How many are there altogether?

(3)

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6 Calculate 2/3 × 3/4 and give your answer in simplest form.

(1)

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7 5 out of 45 pupils walk to school. What fraction is this? Give your answer in its simplest form.

(2)

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8 A box contains 60 sweets. Tom eats 2/5 of the sweets. How many sweets does he eat?

(2)

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9 Write down the reciprocal of 4/7.

(1)

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10 Find 5/6 of 42. Show how you work this out.

(2)

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11 Solve for y: y multiplied by 5/6 = 15/4. Show your method and give y in simplest form.

(3)

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Mark scheme · 1.10 Fractions: Multiplying and Dividing: 30-minute Pack

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

Question 1

both written as improper fractions: 3 2/3 = 11/3 and 1 3/5 = 8/5	M1
multiplies (or multiplies by the reciprocal when dividing)	M1
5 13/15 or 88/15 cao	A1

Answer: **5 13/15**

Question 2

multiplies by the reciprocal: 4/9 x 11/3	M1
1 17/27 or 44/27 cao	A1

Answer: **1 17/27**

Question 3

126 ÷ 9 = 14 or 126 x 5 = 630	M1
70 cao	A1

Answer: **70**

Question 4

multiplies by the reciprocal: 2/7 x 4/3	M1
8/21 cao	A1

Answer: **8/21**

Question 5

10 ÷ 2 = 5 (the value of one part)	M1
5 x 5	M1
25 cao	A1

Answer: **25**

Question 6

1/2 cao	B1

Answer: **1/2**

Question 7

5/45 seen	M1
1/9 cao	A1

Answer: **1/9**

Question 8

method to find 2/5 of 60, e.g. 60 × 2/5 or 60 ÷ 5 × 2	M1
24 cao	A1

Answer: **24**

Question 9

7/4 cao	B1

Answer: **7/4**

Question 10

uses 42 x 5/6	M1
35 cao	A1

Answer: **35**

Question 11

sets up y = (15/4) divided by (5/6)	M1
y = 15/4 x 6/5 = 90/20	M1
y = 9/2 or 4 1/2 cao	A1

Answer: **9/2 (4 1/2)**

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