2.3 Fractions: 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 each answer, giving each in its simplest form.

(a) 2/3 x 3/5 **(2)**

.....

(b) 4/7 x 14/16 **(2)**

.....

(c) 1 1/2 x 2 2/3 **(3)**

.....

2 Work out each answer, giving each in its simplest form.

(a) 3/4 / 2/5 **(2)**

.....

(b) 2 1/2 / 1 1/4 **(3)**

.....

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3 Ewan walks 2 3/5 km before lunch and 1 7/8 km after lunch. How far does Ewan walk altogether?

- [ ] A) 4 1/4 km
- [ ] B) 3 km
- [ ] C) 2 29/40 km
- [ ] D) 4 19/40 km
- [ ] E) 3 10/13 km

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4 6/7 = ?/63. What number replaces the question mark?

- [ ] A) 378
- [ ] B) 57
- [ ] C) 54
- [ ] D) 9
- [ ] E) 62

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5 A ribbon is 5 2/3 m long. Oliver cuts off 1 1/4 m. How much ribbon is left?

- [ ] A) 4 m
- [ ] B) 4 5/12 m
- [ ] C) 4 1/7 m
- [ ] D) 4 1/4 m
- [ ] E) 4 11/12 m

---

6 Write 28/77 in its simplest form.

- [ ] A) 11/4
- [ ] B) 21/70
- [ ] C) 28/11
- [ ] D) 4/77
- [ ] E) 4/11

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7 Anya walks 1 2/3 km before lunch and 3 1/8 km after lunch. How far does Anya walk altogether?

- [ ] A) 4 19/24 km
- [ ] B) 4 3/11 km
- [ ] C) 4 km
- [ ] D) 4 13/24 km
- [ ] E) 4 3/8 km

---

8 Write 5/30 in its simplest form.

- [ ] A) 1/30
- [ ] B) 6/1
- [ ] C) 5/6
- [ ] D) 1/6
- [ ] E) 0/25

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9 Write 36/99 in its simplest form.

- [ ] A) 4/99
- [ ] B) 4/11
- [ ] C) 36/11
- [ ] D) 12/33
- [ ] E) 11/4

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10 Noah walks 2 3/4 km before lunch and 1 5/6 km after lunch. How far does Noah walk altogether?

- [ ] A) 4 1/3 km
- [ ] B) 2 11/12 km
- [ ] C) 4 7/12 km
- [ ] D) 3 km
- [ ] E) 3 4/5 km

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11 1/6 = ?/48. What number replaces the question mark?

- [ ] A) 8
- [ ] B) 48
- [ ] C) 43
- [ ] D) 7
- [ ] E) 9

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12 Sienna walks 1 3/4 km before lunch and 3 1/2 km after lunch. How far does Sienna walk altogether?

- [ ] A) 4 2/3 km
- [ ] B) 5 km
- [ ] C) 4 1/4 km
- [ ] D) 5 1/4 km
- [ ] E) 4 km

---

13 Write 4/10 in its simplest form.

- [ ] A) 4/5
- [ ] B) 5/2
- [ ] C) 2/10
- [ ] D) 2/8
- [ ] E) 2/5

---

14 Arjun walks 4 1/3 km before lunch and 1 1/4 km after lunch. How far does Arjun walk altogether?

- [ ] A) 5 2/7 km
- [ ] B) 5 7/12 km
- [ ] C) 5 1/2 km
- [ ] D) 6 7/12 km
- [ ] E) 5 1/12 km

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15 3/7 = ?/63. What number replaces the question mark?

- [ ] A) 189
- [ ] B) 28
- [ ] C) 27
- [ ] D) 59
- [ ] E) 26

---

16 Rhys walks 5 1/3 km before lunch and 1 2/3 km after lunch. How far does Rhys walk altogether?

- [ ] A) 7 km
- [ ] B) 8 km
- [ ] C) 5 2/3 km
- [ ] D) 6 km
- [ ] E) 6 1/2 km

---

17 Write 2/8 in its simplest form.

- [ ] A) 1/8
- [ ] B) 1/4
- [ ] C) 2/4
- [ ] D) 4/1
- [ ] E) 0/6

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18 A ribbon is 4 1/5 m long. Declan cuts off 3 3/5 m. How much ribbon is left?

- ☐ A) 1 4/5 m
- ☐ B) 1 3/5 m
- ☐ C) 4/5 m
- ☐ D) 3/5 m
- ☐ E) 1 2/5 m

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19 A patchwork quilt is made from 24 equal squares. 9 squares are coloured red, 8 squares are coloured white and the rest are coloured blue.

(a) What fraction of the quilt is blue? Give your answer in its simplest form. **(2)**

.....

(b) What fraction of the quilt is red? Give your answer in its simplest form. **(2)**

.....

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Mark scheme · 2.3 Fractions: 30-minute Pack

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

Question 1

(a) 6/15 seen, or equivalent complete method **M1**

(a) 2/5 cao **A1**

(a) Answer: 2/5

(b) cancelling seen, e.g. 14/7 = 2 or 4/16 = 1/4 **M1**

(b) 1/2 cao **A1**

(b) Answer: 1/2

(c) both mixed numbers converted to improper fractions, e.g. 3/2 and 8/3 **M1**

(c) 24/6 seen, or equivalent complete method **M1**

(c) 4 cao **A1**

(c) Answer: 4

Question 2

(a) 3/4 x 5/2 seen (flip and multiply) **M1**

(a) 15/8 oe 1 7/8 cao **A1**

(a) Answer: 15/8 (1 7/8)

(b) both mixed numbers converted to improper fractions, e.g. 5/2 and 5/4 **M1**

(b) 5/2 x 4/5 seen (flip and multiply) **M1**

(b) 2 cao **A1**

(b) Answer: 2

Question 3

correct option D (4 19/40 km) cao **B1**

Answer: D) 4 19/40 km

Question 4

correct option C (54) cao **B1**

Answer: C) 54

Question 5

correct option B (4 5/12 m) cao **B1**

Answer: B) 4 5/12 m

Question 6

correct option E (4/11) cao **B1**

Answer: E) 4/11

Question 7

correct option A (4 19/24 km) cao **B1**

Answer: A) 4 19/24 km

Question 8

correct option D (1/6) cao **B1**

Answer: D) 1/6

Question 9

correct option B (4/11) cao **B1**

Answer: B) 4/11

Question 10

correct option C (4 7/12 km) cao **B1**

Answer: C) 4 7/12 km

Question 11

correct option A (8) cao **B1**

Answer: A) 8

Question 12

correct option D (5 1/4 km) cao **B1**

Answer: D) 5 1/4 km

Question 13

correct option E (2/5) cao **B1**

Answer: E) 2/5

Question 14

correct option B (5 7/12 km) cao **B1**

Answer: B) 5 7/12 km

Question 15

correct option C (27) cao **B1**

Answer: C) 27

Question 16

correct option A (7 km) cao **B1**

Answer: A) 7 km

Question 17

correct option B (1/4) cao **B1**

Answer: B) 1/4

Question 18

correct option D (3/5 m) cao **B1**

Answer: D) 3/5 m

Question 19

(a) 24 - 9 - 8 (= 7) seen **M1**

(a) 7/24 cao (already in simplest form) **A1**

(a) Answer: 7/24

(b) 9/24 seen **M1**

(b) 3/8 cao **A1**

(b) Answer: 3/8

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