2.74 Multiplying and Dividing Fractions in Context: 30-minute Pack

Total Marks

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

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Declan has 8 litres of juice and fills glasses that each hold 1/3 of a litre. How many glasses can be filled?

- ☐ A) 23
- ☐ B) 25
- ☐ C) 11
- ☐ D) 24
- ☐ E) 72

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2 What is 3/10 of 1/6?

- ☐ A) 1 4/5
- ☐ B) 1/15
- ☐ C) 1/4
- ☐ D) 3/16
- ☐ E) 1/20

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3 Amara has 5 litres of juice and fills glasses that each hold 1/2 of a litre. How many glasses can be filled?

- ☐ A) 11
- ☐ B) 9
- ☐ C) 10
- ☐ D) 20
- ☐ E) 7

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4 Kofi has 3/5 of a tray of flapjack left and eats 5/9 of what is left. What fraction of the whole tray does Kofi eat?

- ☐ A) 1 2/25
- ☐ B) 1/3
- ☐ C) 8/45
- ☐ D) 4/7
- ☐ E) 16/45

---

5 Poppy has 6 litres of juice and fills glasses that each hold 1/2 of a litre. How many glasses can be filled?

- ☐ A) 8
- ☐ B) 12
- ☐ C) 3
- ☐ D) 11
- ☐ E) 13

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6 A tall jug contains 1 3/4 litres of squash. You pour 2/3 of the jug into a bowl. How much squash, in litres, is in the bowl?

(2)

---

7 What is 2/3 divided by 3/5?

- ☐ A) 1 2/3
- ☐ B) 2/5
- ☐ C) 9/10
- ☐ D) 1 1/6
- ☐ E) 1 1/9

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8 What is 1/6 of 2/9?

- [ ] A) 1/5
- [ ] B) 3/4
- [ ] C) 1/27
- [ ] D) 2/15
- [ ] E) 1/18

---

9 What is 3/4 divided by 1/6?

- [ ] A) 4 1/2
- [ ] B) 2/9
- [ ] C) 1/8
- [ ] D) 1 4/5
- [ ] E) 3 3/5

---

10 What is 3/5 divided by 9/10?

- [ ] A) 2/3
- [ ] B) 13/14
- [ ] C) 1 1/2
- [ ] D) 27/50
- [ ] E) 2 1/7

---

11 Grace has 1/2 of a tray of flapjack left and eats 8/9 of what is left. What fraction of the whole tray does Grace eat?

- [ ] A) 1/2
- [ ] B) 9/11
- [ ] C) 4/9
- [ ] D) 8/11
- [ ] E) 9/16

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12 Kwame has 12 litres of juice and fills glasses that each hold 1/6 of a litre. How many glasses can be filled?

- ☐ A) 2
- ☐ B) 18
- ☐ C) 71
- ☐ D) 432
- ☐ E) 72

---

13 Leo has 3 litres of juice and fills glasses that each hold 1/5 of a litre. How many glasses can be filled?

- ☐ A) 75
- ☐ B) 14
- ☐ C) 15
- ☐ D) 16
- ☐ E) 8

---

14 A gardener has 3 1/2 kg of compost. He uses 2/5 of it on one bed and then shares the remainder equally between 3 pots. Work out how much compost each pot receives.

(3)

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15 What is 7/8 of 3/4?

- ☐ A) 5/16
- ☐ B) 5/6
- ☐ C) 1 1/6
- ☐ D) 21/32
- ☐ E) 1 3/4

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16 Grace has 8 litres of juice and fills glasses that each hold 1/6 of a litre. How many glasses can be filled?

- [ ] A) 48
- [ ] B) 49
- [ ] C) 288
- [ ] D) 14
- [ ] E) 47

---

17 Noah has 4/5 of a tray of flapjack left and eats 1/3 of what is left. What fraction of the whole tray does Noah eat?

- [ ] A) 5/8
- [ ] B) 4/15
- [ ] C) 2 2/5
- [ ] D) 1/3
- [ ] E) 1/2

---

18 Ben has 15 litres of juice and fills glasses that each hold 1/5 of a litre. How many glasses can be filled?

- [ ] A) 375
- [ ] B) 3
- [ ] C) 20
- [ ] D) 76
- [ ] E) 75

---

19 What is 1/2 of 6/7?

- [ ] A) 7/12
- [ ] B) 7/9
- [ ] C) 2/3
- [ ] D) 1/2
- [ ] E) 3/7

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20 Jack has 1/10 of a tray of flapjack left and eats 2/9 of what is left. What fraction of the whole tray does Jack eat?

- [ ] A) 9/20
- [ ] B) 2/19
- [ ] C) 1/45
- [ ] D) 1/30
- [ ] E) 3/19

---

21 Isla has 6 litres of juice and fills glasses that each hold 1/6 of a litre. How many glasses can be filled?

- [ ] A) 36
- [ ] B) 1
- [ ] C) 216
- [ ] D) 37
- [ ] E) 12

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22 What is 1/5 of 3/4?

- [ ] A) 4/9
- [ ] B) 3/20
- [ ] C) 4/15
- [ ] D) 1/3
- [ ] E) 1/5

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23 A crate contains 4 1/2 litres of syrup. The syrup is bottled into small bottles of 3/10 litre. How many full bottles can be filled?

(2)

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24 Esme has 1/3 of a tray of flapjack left and eats 6/7 of what is left. What fraction of the whole tray does Esme eat?

- [ ] A) 7/18
- [ ] B) 1/3
- [ ] C) 2/7
- [ ] D) 3/5
- [ ] E) 7/10

---

25 Ethan has 11 litres of juice and fills glasses that each hold 1/6 of a litre. How many glasses can be filled?

- [ ] A) 396
- [ ] B) 65
- [ ] C) 67
- [ ] D) 17
- [ ] E) 66

---

26 Isla has 4 litres of juice and fills glasses that each hold 1/5 of a litre. How many glasses can be filled?

- [ ] A) 100
- [ ] B) 19
- [ ] C) 9
- [ ] D) 20
- [ ] E) 21

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27 Kofi has 3/5 of a tray of flapjack left and eats 8/9 of what is left. What fraction of the whole tray does Kofi eat?

- [ ] A) 8/15
- [ ] B) 11/14
- [ ] C) 27/40
- [ ] D) 11/45
- [ ] E) 1 5/7

---

28 What is 3/8 divided by 1/3?

- [ ] A) 1
- [ ] B) 1/8
- [ ] C) 8/9
- [ ] D) 2/3
- [ ] E) 1 1/8

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Mark scheme · 2.74 Multiplying and Dividing Fractions in Context: 30-minute Pack

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

Question 1

correct option D (24) cao **B1**

Answer: D) 24

Question 2

correct option E (1/20) cao **B1**

Answer: E) 1/20

Question 3

correct option C (10) cao **B1**

Answer: C) 10

Question 4

correct option B (1/3) cao **B1**

Answer: B) 1/3

Question 5

correct option B (12) cao **B1**

Answer: B) 12

Question 6

7/4 x 2/3 or 1 3/4 x 2/3 seen (method) **M1**

1 1/6 litres cao **A1**

Answer: 1 1/6 litres

Question 7

correct option E (1 1/9) cao **B1**

Answer: E) 1 1/9

Question 8

correct option C (1/27) cao **B1**

Answer: C) 1/27

Question 9

correct option A (4 1/2) cao **B1**

Answer: A) 4 1/2

Question 10

correct option A (2/3) cao **B1**

Answer: A) 2/3

Question 11

correct option C (4/9) cao **B1**

Answer: C) 4/9

Question 12

correct option E (72) cao **B1**

Answer: E) 72

Question 13

correct option C (15) cao **B1**

Answer: C) 15

Question 14

Find amount used: 7/2 x 2/5 or equivalent (method) **M1**

Find remainder: 7/2 - 7/5 or equivalent ft **M1**

7/10 kg cao **A1**

Answer: 7/10 kg

Question 15

correct option D (21/32) cao **B1**

Answer: D) 21/32

Question 16

correct option A (48) cao **B1**

Answer: A) 48

Question 17

correct option B (4/15) cao **B1**

Answer: B) 4/15

Question 18

correct option E (75) cao **B1**

Answer: E) 75

Question 19

correct option E (3/7) cao **B1**

Answer: E) 3/7

Question 20

correct option C (1/45) cao **B1**

Answer: C) 1/45

Question 21

correct option A (36) cao **B1**

Answer: A) 36

Question 22

correct option B (3/20) cao **B1**

Answer: B) 3/20

Question 23

9/2 ÷ 3/10 or equivalent division method seen **M1**

15 cao **A1**

Answer: 15 bottles

Question 24

correct option C (2/7) cao **B1**

Answer: C) 2/7

Question 25

correct option E (66) cao **B1**

Answer: E) 66

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Question 26

correct option D (20) cao **B1**

Answer: D) 20

Question 27

correct option A (8/15) cao **B1**

Answer: A) 8/15

Question 28

correct option E (1 1/8) cao **B1**

Answer: E) 1 1/8

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