2.74 Multiplying and Dividing Fractions in Context: Test Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 45 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 2/3 of 9.

(1)

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2 Calculate 3/4 x 2/5.

- ☐ A) 3/20
- ☐ B) 3/10
- ☐ C) 5/8
- ☐ D) 1/2
- ☐ E) 9/20

---

3 A jar contains 7/8 litre of juice. Tom drinks 3/5 of the juice. He then pours the remaining juice equally into 4 glasses. Work out the volume in each glass.

(3)

---

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

- ☐ A) 8
- ☐ B) 9
- ☐ C) 27
- ☐ D) 6
- ☐ E) 1

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5 Niamh has 3/4 of a tray of flapjack left and eats 1/6 of what is left. What fraction of the whole tray does Niamh eat?

- [ ] A) 1/6
- [ ] B) 2/5
- [ ] C) 4 1/2
- [ ] D) 1/8
- [ ] E) 3/10

---

6 What is 4/9 of 1/2?

- [ ] A) 5/18
- [ ] B) 5/11
- [ ] C) 4/11
- [ ] D) 2/9
- [ ] E) 8/9

---

7 What is 5/6 of 1/2?

- [ ] A) 1 2/3
- [ ] B) 5/12
- [ ] C) 3/4
- [ ] D) 1/2
- [ ] E) 5/8

---

8 Callum has 11 litres of juice and fills glasses that each hold 1/2 of a litre. How many glasses can be filled?

- [ ] A) 23
- [ ] B) 13
- [ ] C) 44
- [ ] D) 22
- [ ] E) 21

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9 What is 3/4 divided by 5/6?

- ☐ A) 2
- ☐ B) 9/10
- ☐ C) 1 1/9
- ☐ D) 1
- ☐ E) 5/8

---

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

- ☐ A) 1/21
- ☐ B) 1/10
- ☐ C) 1/5
- ☐ D) 2 1/3
- ☐ E) 2/21

---

11 A chef mixes 3/5 of a 2 1/2 kg bag of flour with 1/3 of a 1 3/4 kg bag of flour to make a blend. Work out the total mass of the blend. Give your answer as an improper fraction and as a mixed number.

(4)

---

12 Sienna has 8 litres of juice and fills glasses that each hold 1/5 of a litre. How many glasses can be filled?

- ☐ A) 41
- ☐ B) 13
- ☐ C) 200
- ☐ D) 39
- ☐ E) 40

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13 Isla has 1/8 of a tray of flapjack left and eats 2/3 of what is left. What fraction of the whole tray does Isla eat?

- [ ] A) 1/8
- [ ] B) 3/11
- [ ] C) 1/12
- [ ] D) 2/11
- [ ] E) 3/16

---

14 What is 1/2 of 3/5?

- [ ] A) 3/10
- [ ] B) 3/7
- [ ] C) 5/6
- [ ] D) 4/7
- [ ] E) 2/5

---

15 Poppy has 13 litres of juice and fills glasses that each hold 1/2 of a litre. How many glasses can be filled?

- [ ] A) 15
- [ ] B) 26
- [ ] C) 25
- [ ] D) 52
- [ ] E) 27

---

16 What is 1/3 divided by 1/4?

- [ ] A) 1
- [ ] B) 3/4
- [ ] C) 1 1/4
- [ ] D) 1 1/3
- [ ] E) 1/12

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17 Ewan has 2/5 of a tray of flapjack left and eats 3/7 of what is left. What fraction of the whole tray does Ewan eat?

- [ ] A) 1/2
- [ ] B) 14/15
- [ ] C) 5/12
- [ ] D) 1/5
- [ ] E) 6/35

---

18 Oliver has 14 litres of juice and fills glasses that each hold 1/8 of a litre. How many glasses can be filled?

- [ ] A) 22
- [ ] B) 113
- [ ] C) 112
- [ ] D) 896
- [ ] E) 111

---

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

- [ ] A) 47
- [ ] B) 384
- [ ] C) 14
- [ ] D) 49
- [ ] E) 48

---

20 Imogen has 1/4 of a tray of flapjack left and eats 2/5 of what is left. What fraction of the whole tray does Imogen eat?

- [ ] A) 5/8
- [ ] B) 3/20
- [ ] C) 2/9
- [ ] D) 1/10
- [ ] E) 1/3

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21 What is 3/5 of 3/7?

- ☐ A) 9/35
- ☐ B) 6/35
- ☐ C) 1 2/5
- ☐ D) 2/7
- ☐ E) 1/2

---

22 Tom has 4/9 of a tray of flapjack left and eats 5/8 of what is left. What fraction of the whole tray does Tom eat?

- ☐ A) 9/17
- ☐ B) 1/8
- ☐ C) 5/18
- ☐ D) 7/24
- ☐ E) 32/45

---

23 A cake recipe uses 1 1/2 cups of sugar. You make 2/3 of the recipe. Work out how much sugar you need.

(2)

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24 Lily has 3 litres of juice and fills glasses that each hold 1/4 of a litre. How many glasses can be filled?

- ☐ A) 7
- ☐ B) 11
- ☐ C) 48
- ☐ D) 12
- ☐ E) 13

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25 Amara has 13 litres of juice and fills glasses that each hold 1/8 of a litre. How many glasses can be filled?

- ☐ A) 104
- ☐ B) 105
- ☐ C) 103
- ☐ D) 21
- ☐ E) 832

---

26 A wooden board is 2.4 m long. You need 5/8 of its length for a shelf. Calculate the length of the shelf.

(2)

---

27 Anya has 2/5 of a tray of flapjack left and eats 5/6 of what is left. What fraction of the whole tray does Anya eat?

- ☐ A) 1/3
- ☐ B) 12/25
- ☐ C) 10/11
- ☐ D) 7/11
- ☐ E) 7/30

---

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

- ☐ A) 1 1/9
- ☐ B) 1/2
- ☐ C) 1 1/4
- ☐ D) 7/27
- ☐ E) 20/81

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29 Emma paints 2/5 of a fence. She then paints 3/7 of the remaining unpainted part.

(a) What fraction of the whole fence does she paint in the second stage? **(1)**

.....

(b) What fraction of the fence is now painted in total? **(1)**

.....

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30 What is 1/4 divided by 4/5?

- ☐ A) 3/4
- ☐ B) 3 1/5
- ☐ C) 5/8
- ☐ D) 1/5
- ☐ E) 5/16

---

31 Sienna has 12 litres of juice and fills glasses that each hold 1/10 of a litre. How many glasses can be filled?

- ☐ A) 120
- ☐ B) 22
- ☐ C) 119
- ☐ D) 121
- ☐ E) 1,200

---

32 What is 3/4 of 2/3?

- ☐ A) 5/12
- ☐ B) 1 1/8
- ☐ C) 6/7
- ☐ D) 5/7
- ☐ E) 1/2

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33 Amara has 7/10 of a tray of flapjack left and eats 2/3 of what is left. What fraction of the whole tray does Amara eat?

- ☐ A) 7/15
- ☐ B) 1 1/20
- ☐ C) 9/13
- ☐ D) 3/10
- ☐ E) 1 1/13

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34 A ribbon 3 m long is cut into pieces each 2/3 m long.

(a) How many full pieces of length 2/3 m can be cut from the ribbon? **(1)**

.....

(b) How much ribbon is left over? **(1)**

.....

---

35 What is 1/6 divided by 1/3?

- ☐ A) 2
- ☐ B) 1/18
- ☐ C) 4/7
- ☐ D) 1/2
- ☐ E) 3/7

---

36 What is 4/5 divided by 1/3?

- ☐ A) 1 1/6
- ☐ B) 5/12
- ☐ C) 4/15
- ☐ D) 2 2/5
- ☐ E) 2

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Mark scheme · 2.74 Multiplying and Dividing Fractions in Context: Test Pack

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

Question 1

6 cao **B1**

Answer: 6

Question 2

correct option B (3/10) cao **B1**

Answer: B) 3/10 (3/4 x 2/5 = 6/20 = 3/10).

Question 3

Find remaining fraction 1 - 3/5 = 2/5 and apply to 7/8 (method) **M1**

Division of remaining amount by 4 seen (or multiply by 1/4) **M1**

7/80 litre cao **A1**

Answer: 7/80 litre (each)

Question 4

correct option B (9) cao **B1**

Answer: B) 9

Question 5

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

Answer: D) 1/8

Question 6

correct option D (2/9) cao **B1**

Answer: D) 2/9

Question 7

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

Answer: B) 5/12

Question 8

correct option D (22) cao **B1**

Answer: D) 22

Question 9

correct option B (9/10) cao **B1**

Answer: B) 9/10

Question 10

correct option A (1/21) cao **B1**

Answer: A) 1/21

Question 11

3/5 of 5/2 seen = 3/5 x 5/2 (= 3/2) (method) **M1**

1/3 of 7/4 seen = 1/3 x 7/4 (= 7/12) (method) **M1**

25/12 as an improper fraction cao **A1**

2 1/12 as mixed number cao **A1**

Answer: 25/12 (improper), 2 1/12 (mixed number)

Question 12

correct option E (40) cao **B1**

Answer: E) 40

Question 13

correct option C (1/12) cao **B1**

Answer: C) 1/12

Question 14

correct option A (3/10) cao **B1**

Answer: A) 3/10

Question 15

correct option B (26) cao **B1**

Answer: B) 26

Question 16

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

Answer: D) 1 1/3

Question 17

correct option E (6/35) cao **B1**

Answer: E) 6/35

Question 18

correct option C (112) cao **B1**

Answer: C) 112

Question 19

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

Answer: E) 48

Question 20

correct option D (1/10) cao **B1**

Answer: D) 1/10

Question 21

correct option A (9/35) cao **B1**

Answer: A) 9/35

Question 22

correct option C (5/18) cao **B1**

Answer: C) 5/18

Question 23

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

1 cup cao **A1**

Answer: 1 cup

Question 24

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

Answer: D) 12

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Question 25

correct option A (104) cao **B1**

Answer: A) 104

Question 26

2.4 x 5/8 or equivalent method seen **M1**

1.5 m cao **A1**

Answer: 1.5 m

Question 27

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

Answer: A) 1/3

Question 28

correct option E (20/81) cao **B1**

Answer: E) 20/81

Question 29

(a) 9/35 cao **B1**

(a) Answer: 9/35

(b) 23/35 cao **B1**

(b) Answer: 23/35

Question 30

correct option E (5/16) cao **B1**

Answer: E) 5/16

Question 31

correct option A (120) cao **B1**

Answer: A) 120

Question 32

correct option E (1/2) cao **B1**

Answer: E) 1/2

Question 33

correct option A (7/15) cao **B1**

Answer: A) 7/15

Question 34

(a) 4 cao **B1**

(a) Answer: 4 pieces

(b) 1/3 m cao **B1**

(b) Answer: 1/3 m

Question 35

correct option D (1/2) cao **B1**

Answer: D) 1/2

Question 36

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

Answer: D) 2 2/5

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