2.74 Multiplying and Dividing Fractions in Context: 1-hour Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

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

- ☐ A) 4/9
- ☐ B) 1/3
- ☐ C) 4/7
- ☐ D) 1/4
- ☐ E) 3/7

---

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

- ☐ A) 31
- ☐ B) 30
- ☐ C) 180
- ☐ D) 29
- ☐ E) 11

---

3 What is 1/8 of 1/2?

- ☐ A) 1/4
- ☐ B) 1/5
- ☐ C) 1/16
- ☐ D) 1/10
- ☐ E) 1/8

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4 Arjun has 5 litres of juice and fills glasses that each hold 1/10 of a litre. How many glasses can be filled?

- [ ] A) 50
- [ ] B) 51
- [ ] C) 2
- [ ] D) 15
- [ ] E) 500

---

5 What is 1/5 of 1/9?

- [ ] A) 1/7
- [ ] B) 1 4/5
- [ ] C) 2/45
- [ ] D) 1/14
- [ ] E) 1/45

---

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

- [ ] A) 10
- [ ] B) 16
- [ ] C) 4
- [ ] D) 32
- [ ] E) 15

---

7 What is 2/5 of 4/5?

- [ ] A) 6/25
- [ ] B) 1/2
- [ ] C) 9/25
- [ ] D) 8/25
- [ ] E) 3/5

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8 What is 2/3 divided by 1/4?

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

---

9 What is 1/8 of 5/9?

- [ ] A) 5/17
- [ ] B) 1/12
- [ ] C) 9/40
- [ ] D) 5/72
- [ ] E) 6/17

---

10 Megan has 4 litres of juice and fills glasses that each hold 1/10 of a litre. How many glasses can be filled?

- [ ] A) 14
- [ ] B) 39
- [ ] C) 40
- [ ] D) 400
- [ ] E) 41

---

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

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

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12 What is 3/10 of 2/5?

- ☐ A) 3/25
- ☐ B) 7/50
- ☐ C) 1/3
- ☐ D) 3/4
- ☐ E) 2/5

---

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

- ☐ A) 192
- ☐ B) 23
- ☐ C) 11
- ☐ D) 24
- ☐ E) 25

---

14 A baker has 2 3/4 kg of dough. He uses 5/6 of it to make loaves. He then divides the remaining dough equally into 3 rolls. Work out the mass of dough in each roll, in kilograms.

(3)

---

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

- ☐ A) 1/20
- ☐ B) 1/9
- ☐ C) 4/5
- ☐ D) 1/10
- ☐ E) 2/9

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16 Priya has 10 litres of juice and fills glasses that each hold 1/2 of a litre. How many glasses can be filled?

- [ ] A) 40
- [ ] B) 21
- [ ] C) 20
- [ ] D) 5
- [ ] E) 12

---

17 What is 2/5 of 1/6?

- [ ] A) 3/11
- [ ] B) 2 2/5
- [ ] C) 2/11
- [ ] D) 1/10
- [ ] E) 1/15

---

18 Sienna has 6 litres of juice and fills glasses that each hold 1/3 of a litre. How many glasses can be filled?

- [ ] A) 9
- [ ] B) 18
- [ ] C) 54
- [ ] D) 17
- [ ] E) 2

---

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

- [ ] A) 24
- [ ] B) 25
- [ ] C) 1
- [ ] D) 10
- [ ] E) 26

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20 What is 7/8 of 1/2?

- [ ] A) 4/5
- [ ] B) 1 3/4
- [ ] C) 7/10
- [ ] D) 7/16
- [ ] E) 1/2

---

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

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

---

22 What is 7/8 divided by 1/5?

- [ ] A) 7/40
- [ ] B) 1 1/3
- [ ] C) 3 8/9
- [ ] D) 8/35
- [ ] E) 4 3/8

---

23 Ewan has 5/6 of a tray of flapjack left and eats 7/8 of what is left. What fraction of the whole tray does Ewan eat?

- [ ] A) 35/48
- [ ] B) 6/7
- [ ] C) 1/4
- [ ] D) 20/21
- [ ] E) 3/4

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24 Tom has 7/10 of a tray of flapjack left and eats 3/8 of what is left. What fraction of the whole tray does Tom eat?

- [ ] A) 1 13/15
- [ ] B) 1 1/6
- [ ] C) 21/80
- [ ] D) 1/8
- [ ] E) 5/9

---

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

- [ ] A) 18
- [ ] B) 7
- [ ] C) 5
- [ ] D) 6
- [ ] E) 60

---

26 What is 1/2 of 4/5?

- [ ] A) 2/5
- [ ] B) 5/8
- [ ] C) 4/7
- [ ] D) 5/7
- [ ] E) 1/2

---

27 What is 1/8 divided by 7/8?

- [ ] A) 3/5
- [ ] B) 7/64
- [ ] C) 7
- [ ] D) 1/7
- [ ] E) 8/15

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28 What is 1/2 of 2/9?

- [ ] A) 1/6
- [ ] B) 1/9
- [ ] C) 2/11
- [ ] D) 3/11
- [ ] E) 2 1/4

---

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

- [ ] A) 20
- [ ] B) 101
- [ ] C) 1
- [ ] D) 99
- [ ] E) 100

---

30 What is 8/9 of 5/9?

- [ ] A) 1 3/5
- [ ] B) 2 2/9
- [ ] C) 40/81
- [ ] D) 13/81
- [ ] E) 13/18

---

31 Dylan has 14 litres of juice and fills glasses that each hold 1/2 of a litre. How many glasses can be filled?

- [ ] A) 56
- [ ] B) 27
- [ ] C) 16
- [ ] D) 28
- [ ] E) 7

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

- [ ] A) 1/12
- [ ] B) 1/24
- [ ] C) 1/5
- [ ] D) 1/10
- [ ] E) 1 1/2

---

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

- [ ] A) 50
- [ ] B) 11
- [ ] C) 9
- [ ] D) 7
- [ ] E) 10

---

34 What is 2/5 of 1/2?

- [ ] A) 3/7
- [ ] B) 4/5
- [ ] C) 1/5
- [ ] D) 3/10
- [ ] E) 2/7

---

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

- [ ] A) 96
- [ ] B) 97
- [ ] C) 768
- [ ] D) 20
- [ ] E) 95

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36 Ewan has 8/9 of a tray of flapjack left and eats 1/3 of what is left. What fraction of the whole tray does Ewan eat?

- [ ] A) 2 2/3
- [ ] B) 8/27
- [ ] C) 1/3
- [ ] D) 2/3
- [ ] E) 3/4

---

37 Megan has 10 litres of juice and fills glasses that each hold 1/6 of a litre. How many glasses can be filled?

- [ ] A) 61
- [ ] B) 360
- [ ] C) 16
- [ ] D) 60
- [ ] E) 59

---

38 What is 1/2 divided by 9/10?

- [ ] A) 5/9
- [ ] B) 1
- [ ] C) 1 4/5
- [ ] D) 10/11
- [ ] E) 9/20

---

39 What is 8/9 of 5/7?

- [ ] A) 2 1/2
- [ ] B) 1 11/45
- [ ] C) 40/63
- [ ] D) 41/63
- [ ] E) 13/16

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40 Imogen has 15 litres of juice and fills glasses that each hold 1/10 of a litre. How many glasses can be filled?

- [ ] A) 150
- [ ] B) 25
- [ ] C) 1,500
- [ ] D) 151
- [ ] E) 149

---

41 What is 5/6 of 5/6?

- [ ] A) 1
- [ ] B) 5/18
- [ ] C) 5/6
- [ ] D) 13/18
- [ ] E) 25/36

---

42 What is 1/3 of 1/8?

- [ ] A) 2/11
- [ ] B) 1/24
- [ ] C) 1/11
- [ ] D) 2 2/3
- [ ] E) 1/12

---

43 What is 2/3 divided by 3/8?

- [ ] A) 9/16
- [ ] B) 2 2/3
- [ ] C) 1 2/3
- [ ] D) 1 7/9
- [ ] E) 1/4

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44 Ben has 1/4 of a tray of flapjack left and eats 1/9 of what is left. What fraction of the whole tray does Ben eat?

- [ ] A) 1/18
- [ ] B) 2 1/4
- [ ] C) 1/13
- [ ] D) 2/13
- [ ] E) 1/36

---

45 Tom has 1/4 of a tray of flapjack left and eats 5/8 of what is left. What fraction of the whole tray does Tom eat?

- [ ] A) 1/2
- [ ] B) 2/5
- [ ] C) 5/12
- [ ] D) 5/32
- [ ] E) 3/16

---

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

- [ ] A) 11
- [ ] B) 12
- [ ] C) 8
- [ ] D) 13
- [ ] E) 72

---

47 What is 1/2 of 5/6?

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

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48 What is 3/4 of 1/4?

- [ ] A) 3/16
- [ ] B) 1/4
- [ ] C) 3
- [ ] D) 3/8
- [ ] E) 1/2

---

49 Ewan has 3 litres of juice and fills glasses that each hold 1/6 of a litre. How many glasses can be filled?

- [ ] A) 18
- [ ] B) 19
- [ ] C) 108
- [ ] D) 9
- [ ] E) 2

---

50 What is 4/5 divided by 1/2?

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

---

51 Sana has 1/5 of a tray of flapjack left and eats 1/5 of what is left. What fraction of the whole tray does Sana eat?

- [ ] A) 1/5
- [ ] B) 2/25
- [ ] C) 1
- [ ] D) 1/10
- [ ] E) 1/25

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52 What is 5/9 of 3/4?

- [ ] A) 1 2/13
- [ ] B) 2/9
- [ ] C) 5/12
- [ ] D) 20/27
- [ ] E) 8/13

---

53 Isla has 1/9 of a tray of flapjack left and eats 7/8 of what is left. What fraction of the whole tray does Isla eat?

- [ ] A) 8/17
- [ ] B) 7/72
- [ ] C) 8/63
- [ ] D) 7/17
- [ ] E) 1/9

---

54 Imogen has 3/5 of a tray of flapjack left and eats 2/9 of what is left. What fraction of the whole tray does Imogen eat?

- [ ] A) 5/14
- [ ] B) 2 7/10
- [ ] C) 3/7
- [ ] D) 2/15
- [ ] E) 7/45

---

55 Yusuf has 1/3 of a tray of flapjack left and eats 8/9 of what is left. What fraction of the whole tray does Yusuf eat?

- [ ] A) 3/4
- [ ] B) 2/3
- [ ] C) 8/27
- [ ] D) 3/8
- [ ] E) 1/3

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56 What is 1/5 of 7/8?

- [ ] A) 8/13
- [ ] B) 7/40
- [ ] C) 7/13
- [ ] D) 8/35
- [ ] E) 1/5

---

57 What is 3/4 of 4/7?

- [ ] A) 7/11
- [ ] B) 1/4
- [ ] C) 13/28
- [ ] D) 1 5/16
- [ ] E) 3/7

---

58 Kofi has 2/9 of a tray of flapjack left and eats 3/5 of what is left. What fraction of the whole tray does Kofi eat?

- [ ] A) 7/45
- [ ] B) 2/15
- [ ] C) 5/14
- [ ] D) 3/7
- [ ] E) 10/27

---

59 Dylan has 1/4 of a tray of flapjack left and eats 3/8 of what is left. What fraction of the whole tray does Dylan eat?

- [ ] A) 1/4
- [ ] B) 1/3
- [ ] C) 2/3
- [ ] D) 1/8
- [ ] E) 3/32

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60 What is 3/8 of 4/7?

- [ ] A) 21/32
- [ ] B) 1/8
- [ ] C) 3/14
- [ ] D) 4/5
- [ ] E) 7/15

---

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

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

---

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

- [ ] A) 1/3
- [ ] B) 4/7
- [ ] C) 25/27
- [ ] D) 1 1/14
- [ ] E) 16/45

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Mark scheme · 2.74 Multiplying and Dividing Fractions in Context: 1-hour Pack

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

Question 1

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

Answer: D) 1/4

Question 2

correct option B (30) cao **B1**

Answer: B) 30

Question 3

correct option C (1/16) cao **B1**

Answer: C) 1/16

Question 4

correct option A (50) cao **B1**

Answer: A) 50

Question 5

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

Answer: E) 1/45

Question 6

correct option B (16) cao **B1**

Answer: B) 16

Question 7

correct option D (8/25) cao **B1**

Answer: D) 8/25

Question 8

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

Answer: C) 2 2/3

Question 9

correct option D (5/72) cao **B1**

Answer: D) 5/72

Question 10

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

Answer: C) 40

Question 11

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

Answer: B) 1/6

Question 12

correct option A (3/25) cao **B1**

Answer: A) 3/25

Question 13

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

Answer: D) 24

Question 14

Find amount used: 11/4 x 5/6 or equivalent (method) **M1**

Find remainder: 11/4 - 55/24 = 11/24 seen (method) **M1**

11/72 kg cao **A1**

Answer: 11/72 kg

Question 15

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

Answer: A) 1/20

Question 16

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

Answer: C) 20

Question 17

correct option E (1/15) cao **B1**

Answer: E) 1/15

Question 18

correct option B (18) cao **B1**

Answer: B) 18

Question 19

correct option B (25) cao **B1**

Answer: B) 25

Question 20

correct option D (7/16) cao **B1**

Answer: D) 7/16

Question 21

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

Answer: E) 2

Question 22

correct option E (4 3/8) cao **B1**

Answer: E) 4 3/8

Question 23

correct option A (35/48) cao **B1**

Answer: A) 35/48

Question 24

correct option C (21/80) cao **B1**

Answer: C) 21/80

Question 25

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

Answer: D) 6

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Question 26

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

Answer: A) 2/5

Question 27

correct option D (1/7) cao **B1**

Answer: D) 1/7

Question 28

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

Answer: B) 1/9

Question 29

correct option E (100) cao **B1**

Answer: E) 100

Question 30

correct option C (40/81) cao **B1**

Answer: C) 40/81

Question 31

correct option D (28) cao **B1**

Answer: D) 28

Question 32

correct option B (1/24) cao **B1**

Answer: B) 1/24

Question 33

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

Answer: E) 10

Question 34

correct option C (1/5) cao **B1**

Answer: C) 1/5

Question 35

correct option A (96) cao **B1**

Answer: A) 96

Question 36

correct option B (8/27) cao **B1**

Answer: B) 8/27

Question 37

correct option D (60) cao **B1**

Answer: D) 60

Question 38

correct option A (5/9) cao **B1**

Answer: A) 5/9

Question 39

correct option C (40/63) cao **B1**

Answer: C) 40/63

Question 40

correct option A (150) cao **B1**

Answer: A) 150

Question 41

correct option E (25/36) cao **B1**

Answer: E) 25/36

Question 42

correct option B (1/24) cao **B1**

Answer: B) 1/24

Question 43

correct option D (1 7/9) cao **B1**

Answer: D) 1 7/9

Question 44

correct option E (1/36) cao **B1**

Answer: E) 1/36

Question 45

correct option D (5/32) cao **B1**

Answer: D) 5/32

Question 46

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

Answer: B) 12

Question 47

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

Answer: C) 5/12

Question 48

correct option A (3/16) cao **B1**

Answer: A) 3/16

Question 49

correct option A (18) cao **B1**

Answer: A) 18

Question 50

correct option A (1 3/5) cao **B1**

Answer: A) 1 3/5

Question 51

correct option E (1/25) cao **B1**

Answer: E) 1/25

Question 52

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

Answer: C) 5/12

Question 53

correct option B (7/72) cao **B1**

Answer: B) 7/72

Question 54

correct option D (2/15) cao **B1**

Answer: D) 2/15

Question 55

correct option C (8/27) cao **B1**

Answer: C) 8/27

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Question 56

correct option B (7/40) cao **B1**

Answer: B) 7/40

Question 57

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

Answer: E) 3/7

Question 58

correct option B (2/15) cao **B1**

Answer: B) 2/15

Question 59

correct option E (3/32) cao **B1**

Answer: E) 3/32

Question 60

correct option C (3/14) cao **B1**

Answer: C) 3/14

Question 61

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

Answer: D) 1/5

Question 62

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

Answer: A) 1/3

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