2.72 Fractions of Amounts and Remainders: Test Pack

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

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 There are 8 pens each filled with 7 animals and 5 animals left unpened. What fraction of the total animals are in the filled pens? Also state the total number of animals.

(4)

---

2 5/6 of the money in a collection tin is £55. How much money is in the tin altogether?

- ☐ A) £67.00
- ☐ B) £66.00
- ☐ C) £275.00
- ☐ D) £11.00
- ☐ E) £330.00

---

3 A box holds 14 counters. 1/7 of them are red. How many counters are red?

- ☐ A) 12
- ☐ B) 98
- ☐ C) 2
- ☐ D) 3
- ☐ E) 1

© Revision Library | revisionlibrary.co.uk

4 Arjun has £105. Arjun spends 4/5 of it on a game, then 1/3 of the money left on a snack. How much money is left?

- [ ] A) £7.00
- [ ] B) £91.00
- [ ] C) £21.00
- [ ] D) £-14.00
- [ ] E) £14.00

---

5 2/5 of the money in a collection tin is £22. How much money is in the tin altogether?

- [ ] A) £55.00
- [ ] B) £44.00
- [ ] C) £110.00
- [ ] D) £11.00
- [ ] E) £27.00

---

6 5/8 of the money in a collection tin is £45. How much money is in the tin altogether?

- [ ] A) £71.00
- [ ] B) £72.00
- [ ] C) £53.00
- [ ] D) £360.00
- [ ] E) £225.00

---

7 Imogen has £60. Imogen spends 5/6 of it on a game, then 1/2 of the money left on a snack. How much money is left?

- [ ] A) £5.00
- [ ] B) £55.00
- [ ] C) £10.00
- [ ] D) £6.00
- [ ] E) £-20.00

© Revision Library | revisionlibrary.co.uk

8 3/10 of the money in a collection tin is £42. How much money is in the tin altogether?

- [ ] A) £140.00
- [ ] B) £12.60
- [ ] C) £14.00
- [ ] D) £420.00
- [ ] E) £126.00

---

9 A box holds 24 counters. 3/8 of them are red. How many counters are red?

- [ ] A) 9
- [ ] B) 15
- [ ] C) 3
- [ ] D) 72
- [ ] E) 64

---

10 Aisha has £32. Aisha spends 3/4 of it on a game, then 1/2 of the money left on a snack. How much money is left?

- [ ] A) £-8.00
- [ ] B) £3.00
- [ ] C) £5.00
- [ ] D) £4.00
- [ ] E) £28.00

---

11 3/8 of the pupils in a club are girls. There are 15 girls. How many pupils are in the club?

- [ ] A) 120
- [ ] B) 39
- [ ] C) 40
- [ ] D) 45
- [ ] E) 5

© Revision Library | revisionlibrary.co.uk

12 Kofi has £10. Kofi spends 3/5 of it. How much does Kofi spend?

- [ ] A) £4.00
- [ ] B) £7.00
- [ ] C) £2.00
- [ ] D) £30.00
- [ ] E) £6.00

---

13 11/12 of the money in a collection tin is £143. How much money is in the tin altogether?

- [ ] A) £155.00
- [ ] B) £1,573.00
- [ ] C) £157.00
- [ ] D) £156.00
- [ ] E) £1,716.00

---

14 Oliver has read 1/6 of a book, which is 7 pages. How many pages are in the book?

- [ ] A) 43
- [ ] B) 7
- [ ] C) 13
- [ ] D) 42
- [ ] E) 41

---

15 A box holds 75 counters. 11/15 of them are red. How many counters are red?

- [ ] A) 20
- [ ] B) 55
- [ ] C) 54
- [ ] D) 5
- [ ] E) 56

---

16 Dylan has read 1/6 of a book, which is 14 pages. How many pages are in the book?

- [ ] A) 20
- [ ] B) 84
- [ ] C) 83
- [ ] D) 85
- [ ] E) 14

© Revision Library | revisionlibrary.co.uk

17 Amara has £238. Amara spends 5/7 of it. How much does Amara spend?

- [ ] A) £34.00
- [ ] B) £170.00
- [ ] C) £68.00
- [ ] D) £1,190.00
- [ ] E) £169.00

---

18 A cycle route is 40 km long. Rhys rides 3/5 of the route. How far is that?

- [ ] A) 25 km
- [ ] B) 8 km
- [ ] C) 16 km
- [ ] D) 24 km
- [ ] E) 120 km

---

19 1/3 of the pupils in a club are girls. There are 9 girls. How many pupils are in the club?

- [ ] A) 9
- [ ] B) 12
- [ ] C) 28
- [ ] D) 3
- [ ] E) 27

---

20 A cycle route is 40 km long. Fatima rides 1/10 of the route. How far is that?

- [ ] A) 5 km
- [ ] B) 36 km
- [ ] C) 400 km
- [ ] D) 40 km
- [ ] E) 4 km

© Revision Library | revisionlibrary.co.uk

21 Anya has £60. Anya spends 1/3 of it on a game, then 1/2 of the money left on a snack. How much money is left?

- [ ] A) £20
- [ ] B) £40
- [ ] C) £10
- [ ] D) £0
- [ ] E) £21

---

22 Jack has read 1/4 of a book, which is 12 pages. How many pages are in the book?

- [ ] A) 3
- [ ] B) 47
- [ ] C) 48
- [ ] D) 12
- [ ] E) 16

---

23 Sienna has £27. Sienna spends 5/9 of it. How much does Sienna spend?

- [ ] A) £15.00
- [ ] B) £14.00
- [ ] C) £48.60
- [ ] D) £12.00
- [ ] E) £3.00

---

24 A cycle route is 56 km long. Niamh rides 4/7 of the route. How far is that?

- [ ] A) 8 km
- [ ] B) 24 km
- [ ] C) 31 km
- [ ] D) 32 km
- [ ] E) 98 km

© Revision Library | revisionlibrary.co.uk

25 Aisha has read 1/3 of a book, which is 7 pages. How many pages are in the book?

- [ ] A) 20
- [ ] B) 10
- [ ] C) 7
- [ ] D) 22
- [ ] E) 21

---

26 Amara has read 5/6 of a book, which is 35 pages. How many pages are in the book?

- [ ] A) 7
- [ ] B) 175
- [ ] C) 43
- [ ] D) 42
- [ ] E) 210

---

27 A box holds 40 counters. 3/20 of them are red. How many counters are red?

- [ ] A) 7
- [ ] B) 34
- [ ] C) 2
- [ ] D) 6
- [ ] E) 5

---

28 Tariq has £100. Tariq spends 4/5 of it on a game, then 1/2 of the money left on a snack. How much money is left?

- [ ] A) £90
- [ ] B) £20
- [ ] C) £-30
- [ ] D) £9
- [ ] E) £10

© Revision Library | revisionlibrary.co.uk

29 3/4 of the pupils in a club are girls. There are 33 girls. How many pupils are in the club?

- [ ] A) 37
- [ ] B) 99
- [ ] C) 132
- [ ] D) 45
- [ ] E) 44

---

30 1/3 of the money in a collection tin is £3. How much money is in the tin altogether?

- [ ] A) £3.00
- [ ] B) £6.00
- [ ] C) £1.00
- [ ] D) £9.00
- [ ] E) £10.00

---

31 Maya has £24. Maya spends 1/4 of it on a game, then 5/6 of the money left on a snack. How much money is left?

- [ ] A) £3.00
- [ ] B) £-2.00
- [ ] C) £4.00
- [ ] D) £21.00
- [ ] E) £-3.00

---

32 Grace has £210. Grace spends 7/10 of it on a game, then 2/3 of the money left on a snack. How much money is left?

- [ ] A) £21.00
- [ ] B) £63.00
- [ ] C) £-126.00
- [ ] D) £189.00
- [ ] E) £-77.00

© Revision Library | revisionlibrary.co.uk

33 2/5 of the pupils in a club are girls. There are 20 girls. How many pupils are in the club?

- [ ] A) 100
- [ ] B) 51
- [ ] C) 50
- [ ] D) 25
- [ ] E) 40

---

34 A cycle route is 48 km long. Tom rides 1/6 of the route. How far is that?

- [ ] A) 9 km
- [ ] B) 8 km
- [ ] C) 40 km
- [ ] D) 288 km
- [ ] E) 48 km

---

35 Callum has £40. Callum spends 1/5 of it on a game, then 1/2 of the money left on a snack. How much money is left?

- [ ] A) £24.00
- [ ] B) £12.00
- [ ] C) £15.00
- [ ] D) £8.00
- [ ] E) £16.00

---

36 2/5 of the money in a collection tin is £10. How much money is in the tin altogether?

- [ ] A) £4.00
- [ ] B) £20.00
- [ ] C) £24.00
- [ ] D) £50.00
- [ ] E) £25.00

© Revision Library | revisionlibrary.co.uk

37 Kwame has £48. Kwame spends 1/4 of it. How much does Kwame spend?

- [ ] A) £48.00
- [ ] B) £36.00
- [ ] C) £11.00
- [ ] D) £12.00
- [ ] E) £192.00

---

38 Niamh has £220. Niamh spends 19/20 of it. How much does Niamh spend?

- [ ] A) £4,180.00
- [ ] B) £210.00
- [ ] C) £209.00
- [ ] D) £208.00
- [ ] E) £11.00

---

39 Tariq has £24. Tariq spends 1/4 of it on a game, then 1/6 of the money left on a snack. How much money is left?

- [ ] A) £18.00
- [ ] B) £14.00
- [ ] C) £15.00
- [ ] D) £9.00
- [ ] E) £16.00

---

40 Declan has read 5/8 of a book, which is 60 pages. How many pages are in the book?

- [ ] A) 300
- [ ] B) 480
- [ ] C) 95
- [ ] D) 68
- [ ] E) 96

© Revision Library | revisionlibrary.co.uk

41 A cycle route is 66 km long. Ravi rides 5/6 of the route. How far is that?

- [ ] A) 55 km
- [ ] B) 330 km
- [ ] C) 56 km
- [ ] D) 11 km
- [ ] E) 54 km

---

42 A box holds 42 counters. 3/7 of them are red. How many counters are red?

- [ ] A) 6
- [ ] B) 14
- [ ] C) 18
- [ ] D) 19
- [ ] E) 24

---

43 2/3 of the pupils in a club are girls. There are 22 girls. How many pupils are in the club?

- [ ] A) 44
- [ ] B) 25
- [ ] C) 33
- [ ] D) 66
- [ ] E) 11

---

44 Dylan has read 3/10 of a book, which is 9 pages. How many pages are in the book?

- [ ] A) 3
- [ ] B) 27
- [ ] C) 30
- [ ] D) 29
- [ ] E) 90

---

45 Megan has £30. Megan spends 7/15 of it. How much does Megan spend?

- [ ] A) £14.00
- [ ] B) £13.00
- [ ] C) £16.00
- [ ] D) £210.00
- [ ] E) £2.00

© Revision Library | revisionlibrary.co.uk

46 Yusuf has £140. Yusuf spends 1/5 of it on a game, then 3/4 of the money left on a snack. How much money is left?

- [ ] A) £7.00
- [ ] B) £0.00
- [ ] C) £84.00
- [ ] D) £112.00
- [ ] E) £28.00

---

47 1/5 of the money in a collection tin is £9. How much money is in the tin altogether?

- [ ] A) £45.00
- [ ] B) £46.00
- [ ] C) £1.80
- [ ] D) £9.00
- [ ] E) £14.00

---

48 What is 1/6 of 30?

- [ ] A) 6
- [ ] B) 3
- [ ] C) 4
- [ ] D) 5
- [ ] E) 8

---

49 Leo has £60. Leo spends 2/3 of it on a game, then 1/2 of the money left on a snack. How much money is left?

- [ ] A) £50
- [ ] B) £20
- [ ] C) £10
- [ ] D) £-30
- [ ] E) £-10

© Revision Library | revisionlibrary.co.uk

50 2/3 of the pupils in a club are girls. There are 30 girls. How many pupils are in the club?

- [ ] A) 46
- [ ] B) 45
- [ ] C) 60
- [ ] D) 90
- [ ] E) 15

---

51 A cycle route is 120 km long. Sienna rides 1/10 of the route. How far is that?

- [ ] A) 11 km
- [ ] B) 108 km
- [ ] C) 12 km
- [ ] D) 13 km
- [ ] E) 1,200 km

---

52 Ffion has £24. Ffion spends 2/3 of it on a game, then 1/2 of the money left on a snack. How much money is left?

- [ ] A) £20.00
- [ ] B) £4.00
- [ ] C) £-4.00
- [ ] D) £-12.00
- [ ] E) £3.00

---

53 3/5 of the pupils in a club are girls. There are 21 girls. How many pupils are in the club?

- [ ] A) 26
- [ ] B) 35
- [ ] C) 7
- [ ] D) 105
- [ ] E) 63

© Revision Library | revisionlibrary.co.uk

54 A school collects 240 items. One third are books. One quarter of the remaining items are games. How many games were collected?

(3)

---

55 A number when divided by 7 gives remainder 4. The number is less than 50 and is the greatest possible such number. Find it.

(2)

© Revision Library | revisionlibrary.co.uk

Mark scheme · 2.72 Fractions of Amounts and Remainders: Test Pack

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

Question 1

total animals calculated (8 x 7 + 5 = 61) seen	**M1**
animals in filled pens given as 8 x 7 = 56 seen	**M1**
fraction formed as 56/61 seen	**M1**
final fraction 56/61 and total 61 cao	**A1**

Answer: Fraction in filled pens = 56/61; Total = 61

Question 2

correct option B (£66.00) cao; 55 / 5 = 11, x 6 **B1**

Answer: B) £66.00

Question 3

correct option C (2) cao; 14 / 7 x 1 **B1**

Answer: C) 2

Question 4

correct option E (£14.00) cao **B1**

Answer: E) £14.00

Question 5

correct option A (£55.00) cao; 22 / 2 = 11, x 5 **B1**

Answer: A) £55.00

Question 6

correct option B (£72.00) cao; 45 / 5 = 9, x 8 **B1**

Answer: B) £72.00

Question 7

correct option A (£5.00) cao **B1**

Answer: A) £5.00

Question 8

correct option A (£140.00) cao; 42 / 3 = 14, x 10 **B1**

Answer: A) £140.00

Question 9

correct option A (9) cao; 24 / 8 x 3 **B1**

Answer: A) 9

Question 10

correct option D (£4.00) cao **B1**

Answer: D) £4.00

Question 11

correct option C (40) cao; 15 / 3 = 5, x 8 **B1**

Answer: C) 40

Question 12

correct option E (£6.00) cao; 10 / 5 x 3 **B1**

Answer: E) £6.00

Question 13

correct option D (£156.00) cao; 143 / 11 = 13, x 12 **B1**

Answer: D) £156.00

Question 14

correct option D (42) cao; 7 / 1 = 7, x 6 **B1**

Answer: D) 42

Question 15

correct option B (55) cao; 75 / 15 x 11 **B1**

Answer: B) 55

Question 16

correct option B (84) cao; 14 / 1 = 14, x 6 **B1**

Answer: B) 84

Question 17

correct option B (£170.00) cao; 238 / 7 x 5 **B1**

Answer: B) £170.00

Question 18

correct option D (24 km) cao; 40 / 5 x 3 **B1**

Answer: D) 24 km

Question 19

correct option E (27) cao; 9 / 1 = 9, x 3 **B1**

Answer: E) 27

Question 20

correct option E (4 km) cao; 40 / 10 x 1 **B1**

Answer: E) 4 km

Question 21

correct option A (£20) cao **B1**

Answer: A) £20

Question 22

correct option C (48) cao; 12 / 1 = 12, x 4 **B1**

Answer: C) 48

Question 23

correct option A (£15.00) cao; 27 / 9 x 5 **B1**

Answer: A) £15.00

Question 24

correct option D (32 km) cao; 56 / 7 x 4 **B1**

Answer: D) 32 km

Question 25

correct option E (21) cao; 7 / 1 = 7, x 3 **B1**

Answer: E) 21

Question 26

correct option D (42) cao; 35 / 5 = 7, x 6 **B1**

Answer: D) 42

© Revision Library | revisionlibrary.co.uk

Question 27

correct option D (6) cao; 40 / 20 x 3 **B1**

Answer: D) 6

Question 28

correct option E (£10) cao **B1**

Answer: E) £10

Question 29

correct option E (44) cao; 33 / 3 = 11, x 4 **B1**

Answer: E) 44

Question 30

correct option D (£9.00) cao; 3 / 1 = 3, x 3 **B1**

Answer: D) £9.00

Question 31

correct option A (£3.00) cao **B1**

Answer: A) £3.00

Question 32

correct option A (£21.00) cao **B1**

Answer: A) £21.00

Question 33

correct option C (50) cao; 20 / 2 = 10, x 5 **B1**

Answer: C) 50

Question 34

correct option B (8 km) cao; 48 / 6 x 1 **B1**

Answer: B) 8 km

Question 35

correct option E (£16.00) cao **B1**

Answer: E) £16.00

Question 36

correct option E (£25.00) cao; 10 / 2 = 5, x 5 **B1**

Answer: E) £25.00

Question 37

correct option D (£12.00) cao; 48 / 4 x 1 **B1**

Answer: D) £12.00

Question 38

correct option C (£209.00) cao; 220 / 20 x 19 **B1**

Answer: C) £209.00

Question 39

correct option C (£15.00) cao **B1**

Answer: C) £15.00

Question 40

correct option E (96) cao; 60 / 5 = 12, x 8 **B1**

Answer: E) 96

Question 41

correct option A (55 km) cao; 66 / 6 x 5 **B1**

Answer: A) 55 km

Question 42

correct option C (18) cao; 42 / 7 x 3 **B1**

Answer: C) 18

Question 43

correct option C (33) cao; 22 / 2 = 11, x 3 **B1**

Answer: C) 33

Question 44

correct option C (30) cao; 9 / 3 = 3, x 10 **B1**

Answer: C) 30

Question 45

correct option A (£14.00) cao; 30 / 15 x 7 **B1**

Answer: A) £14.00

Question 46

correct option E (£28.00) cao **B1**

Answer: E) £28.00

Question 47

correct option A (£45.00) cao; 9 / 1 = 9, x 5 **B1**

Answer: A) £45.00

Question 48

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

Answer: D) 5

Question 49

correct option C (£10) cao **B1**

Answer: C) £10

Question 50

correct option B (45) cao; 30 / 2 = 15, x 3 **B1**

Answer: B) 45

Question 51

correct option C (12 km) cao; 120 / 10 x 1 **B1**

Answer: C) 12 km

Question 52

correct option B (£4.00) cao **B1**

Answer: B) £4.00

Question 53

correct option B (35) cao; 21 / 3 = 7, x 5 **B1**

Answer: B) 35

Question 54

books = 1/3 of 240 = 80 seen **M1**

remaining after books found (240 - 80 = 160) oe **M1**

games = 1/4 of 160 = 40 cao **A1**

Answer: 40 games

Question 55

find k such that 7k + 4 < 50 and k maximised (k = 6) seen **M1**

46 cao **A1**

Answer: 46

© Revision Library | revisionlibrary.co.uk