2.83 Combined Ratio and Fraction Problems: 10-minute Pack

Total Marks

GL ASSESSMENT GL-11PLUS-MATHS · Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A and B share money in the ratio 5:3. If A receives £25, how much does B receive?

- ☐ A) £10
- ☐ B) £15
- ☐ C) £20
- ☐ D) £30
- ☐ E) £40

---

2 A recipe uses flour and sugar in the ratio 3:2. If the total mixture is 25 g, how much sugar is used?

- ☐ A) 5 g
- ☐ B) 7.5 g
- ☐ C) 10 g
- ☐ D) 12.5 g
- ☐ E) 15 g

---

3 Three friends share £60 in the ratio 2:3:1. How much does the middle friend receive?

- ☐ A) £10
- ☐ B) £15
- ☐ C) £20
- ☐ D) £30
- ☐ E) £35

© Revision Library | revisionlibrary.co.uk

4 A mixture contains alcohol and water in the ratio 1:9. What fraction of the mixture is alcohol?

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

---

5 There are 24 tiles in two colours in the ratio red:blue = 5:1. How many red tiles are there?

- ☐ A) 4
- ☐ B) 5
- ☐ C) 12
- ☐ D) 20
- ☐ E) 18

---

6 In a group of 22, the ratio of red counters to blue counters is 6:5. How many more red counters are there than blue counters?

- ☐ A) 2
- ☐ B) 22
- ☐ C) 10
- ☐ D) 20
- ☐ E) 1

---

7 In a group of 39, the ratio of cherry sweets to lemon sweets is 4:9. How many more lemon sweets are there than cherry sweets?

- ☐ A) 24
- ☐ B) 27
- ☐ C) 5
- ☐ D) 16
- ☐ E) 15

© Revision Library | revisionlibrary.co.uk

8 The ratio of boys to girls is 6:5. What fraction of the group are girls?

- [ ] A) 6/5
- [ ] B) 5/11
- [ ] C) 1/11
- [ ] D) 6/11
- [ ] E) 1/5

---

9 In a group of 40, the ratio of cats to dogs is 1:4. How many more dogs are there than cats?

- [ ] A) 16
- [ ] B) 3
- [ ] C) 24
- [ ] D) 23
- [ ] E) 32

---

10 In a group of 15, the ratio of boys to girls is 2:3. How many more girls are there than boys?

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

---

11 The ratio of cherry sweets to lemon sweets is 3:5. What fraction of the group are lemon sweets?

- [ ] A) 3/5
- [ ] B) 5/11
- [ ] C) 3/8
- [ ] D) 5/8
- [ ] E) 1/4

© Revision Library | revisionlibrary.co.uk

Mark scheme · 2.83 Combined Ratio and Fraction Problems: 10-minute Pack

Question 1

correct option B (£15) cao **B1**

Answer: B) £15 (One part = 25/5 = £5, B has 3 parts = 3 x £5 = £15.)

Question 2

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

Answer: C) 10 g (Total parts 3+2 = 5 so sugar = 2/5 of 25 = 10 g.)

Question 3

correct option D (£30) cao **B1**

Answer: D) £30 (Total parts 2+3+1=6, each part = £60/6 = £10, middle friend 3 parts = £30.)

Question 4

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

Answer: B) 1/10 (Total parts 1+9 = 10, alcohol is 1 out of 10 parts.)

Question 5

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

Answer: D) 20 (Total parts 5+1 = 6, one part = 24/6 = 4, red = 5 x 4 = 20.)

Question 6

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

Answer: A) 2

Question 7

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

Answer: E) 15

Question 8

correct option B (5/11) cao **B1**

Answer: B) 5/11

Question 9

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

Answer: C) 24

Question 10

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

Answer: B) 3

Question 11

correct option D (5/8) cao **B1**

Answer: D) 5/8

© Revision Library | revisionlibrary.co.uk