4.1 Fractions and Problem Solving: 1-hour Pack

STA NC-KS1-MATHS-STA · Calculators not allowed · about 60 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Two numbers add up to 15. One of the numbers is 11. What is the other number?

Answer: ___

(1)

---

2 Here are four number cards: 3, 4, 5, 10.

Which two cards add up to 8?

Answer: ___ and ___

(1)

---

3 Sofia shares 16 marbles equally between 2 friends.

Write the fraction of the marbles each friend gets, then work out how many marbles each friend gets.

Answer: ___ and ___

(2)

© Revision Library | revisionlibrary.co.uk

4 Here are four number cards: 3, 5, 8, 11.

Which two cards add up to 11?

Answer: ___ and ___

(1)

---

5 Here are four number cards: 2, 6, 9, 11.

Which two cards add up to 15?

Answer: ___ and ___

(1)

---

6 A quarter of a number is 5.

Work out the number. Show your working.

Answer: ___

(2)

© Revision Library | revisionlibrary.co.uk

7 Here are four number cards: 2, 4, 9, 11.

Which two cards add up to 11?

Answer: ___ and ___

(1)

---

8 Yusuf has 3 marbles. Dev has 11 marbles. Who has more marbles, and how many more?

Answer: ___

(1)

---

9 Tom has 14 books. Tom is given 1 more and then loses 14. How many books does Tom have now?

Answer: ___

(2)

---

10 Bella has 10 books. Bella gives away 1 and then finds 1 more. How many books does Bella have now?

Answer: ___

(2)

© Revision Library | revisionlibrary.co.uk

11 Yusuf has 7 cards. Yusuf is given 12 more and then loses 16. How many cards does Yusuf have now?

Answer: ___

(2)

---

12 Reece has 11 toy cars. Reece gives away 11 and then finds 8 more. How many toy cars does Reece have now?

Answer: ___

(2)

---

13 Poppy shares 20 toy cars equally between 4 friends.

Write the fraction of the toy cars each friend gets, then work out how many toy cars each friend gets.

Answer: ___ and ___

(2)

---

14 A ribbon is 30 cm long. Deepak cuts it into 3 equal pieces.

Work out the length of each piece. Show your working.

Answer: ___

(2)

© Revision Library | revisionlibrary.co.uk

15 Uma thinks of a number. Uma adds 4 and gets 14. What number did Uma think of?

Answer: ___

(1)

---

16 Two numbers add up to 19. One of the numbers is 15. What is the other number?

Answer: ___

(1)

---

17 Jack shares 16 cubes equally between 4 friends.

Write the fraction of the cubes each friend gets, then work out how many cubes each friend gets.

Answer: ___ and ___

(2)

---

18 Jade has 4 beads. Jade gives 2 to Tom. How many beads does Jade have left?

Answer: ___

(1)

© Revision Library | revisionlibrary.co.uk

19 Here are four number cards: 3, 8, 10, 11.

Which two cards add up to 11?

Answer: ___ and ___

(1)

---

20 A rope is cut into 3 equal pieces. What is each piece called?

Answer: ___

(1)

---

21 Daisy has 10 pebbles. Daisy gives away 5 and then finds 6 more. How many pebbles does Daisy have now?

Answer: ___

(2)

---

22 George has 7 balloons. George is given 4 more and then loses 1. How many balloons does George have now?

Answer: ___

(2)

© Revision Library | revisionlibrary.co.uk

23 Olu has 14 marbles. Willow has 11 marbles. Who has more marbles, and how many more?

Answer: ___

(1)

---

24 Ethan has 11 stickers. Ethan is given 5 more and then loses 5. How many stickers does Ethan have now?

Answer: ___

(2)

---

25 If a shape is split into 4 equal parts. What is each part called?

Answer: ___

(1)

---

26 How many thirds make a whole?

Answer: ___

(1)

© Revision Library | revisionlibrary.co.uk

27 Ben shares 10 pebbles equally between 2 friends.

Write the fraction of the pebbles each friend gets, then work out how many pebbles each friend gets.

Answer: ___ and ___

(2)

---

28 Farmer Singh collects 24 eggs. He sells half of the eggs at the market. Then he gives a quarter of the remaining eggs to his neighbour.

Work out how many eggs Farmer Singh has left. Show your working.

Answer: ___

(3)

© Revision Library | revisionlibrary.co.uk

29 A pizza is cut into 4 equal slices. Ethan eats 1 slice.

What fraction of the pizza is left?

Answer: ___

(1)

---

30 Freya has 15 shells. Sofia has 4. How many more does Freya have than Sofia?

Answer: ___

(1)

© Revision Library | revisionlibrary.co.uk

Mark scheme · 4.1 Fractions and Problem Solving: 1-hour Pack

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

Question 1

4 cao — **B1**

Answer: **4**

Question 2

3 and 5 cao — **B1**

Answer: **3 and 5**

Question 3

1/2 seen — **M1**

1/2 and 8 cao — **A1**

Answer: **1/2 and 8**

Question 4

3 and 8 cao — **B1**

Answer: **3 and 8**

Question 5

6 and 9 cao — **B1**

Answer: **6 and 9**

Question 6

uses the inverse operation, 5 x 4 oe — **M1**

20 cao — **A1**

Answer: **20**

Question 7

2 and 9 cao — **B1**

Answer: **2 and 9**

Question 8

Dev, 8 more cao — **B1**

Answer: **Dev, 8 more**

Question 9

14 + 1 = 15 seen — **M1**

1 cao — **A1**

Answer: **1**

Question 10

10 - 1 = 9 seen — **M1**

10 cao — **A1**

Answer: **10**

Question 11

7 + 12 = 19 seen — **M1**

3 cao — **A1**

Answer: **3**

Question 12

11 - 11 = 0 seen — **M1**

8 cao — **A1**

Answer: **8**

Question 13

1/4 seen — **M1**

1/4 and 5 cao — **A1**

Answer: **1/4 and 5**

Question 14

finds one third of 30 (30 / 3) oe — **M1**

10 cm cao (units required) — **A1**

Answer: **10 cm**

Question 15

10 cao — **B1**

Answer: **10**

Question 16

4 cao — **B1**

Answer: **4**

Question 17

1/4 seen — **M1**

1/4 and 4 cao — **A1**

Answer: **1/4 and 4**

Question 18

2 cao — **B1**

Answer: **2**

Question 19

3 and 8 cao — **B1**

Answer: **3 and 8**

Question 20

a third cao — **B1**

Answer: **a third**

Question 21

10 - 5 seen — **M1**

11 cao — **A1**

Answer: **11**

Question 22

7 + 4 = 11 seen — **M1**

10 cao — **A1**

Answer: **10**

Question 23

Olu, 3 more cao — **B1**

Answer: **Olu, 3 more**

© Revision Library | revisionlibrary.co.uk

Question 24

11 + 5 = 16 seen	**M1**
11 cao	**A1**

Answer: **11**

Question 25

a quarter cao	**B1**

Answer: **a quarter**

Question 26

3 cao	**B1**

Answer: **3**

Question 27

1/2 seen	**M1**
1/2 and 5 cao	**A1**

Answer: **1/2 and 5**

Question 28

finds half of 24, 24 / 2 = 12 (eggs remaining after selling) oe	**M1**
finds one quarter of their 12, 12 / 4 = 3 (eggs given to neighbour), dep on first method, oe, ft	**M1**
9 cao (12 - 3), ft their values if the method is correct	**A1**

Answer: **9 eggs**

Question 29

3/4 cao	**B1**

Answer: **3/4**

Question 30

11 cao	**B1**

Answer: **11**

© Revision Library | revisionlibrary.co.uk