



11+ Maths Revision & Practice

Simultaneous Equations Test

Instructions:

1. The total time allowed is 10 minutes.
2. There is a total of 15 marks available.
3. The available marks for each question are mentioned next to the question.
4. Write your answers in the space or box provided below each question.
5. For multiple-choice questions, choose the correct option from A to E.

Symbols used:



Go to the next page.



Do not turn the page
until told to do so.



Stop working and await
instructions.

- 1 3 bottles of oil and 1 bottle of milk have a total mass of 750 g. 4 bottles of oil and 1 bottle of milk have a total mass of 950 g. Work out the total mass of 2 bottles of oil and 2 bottles of milk.

- A. 700 g
- B. 800 g
- C. 750 g
- D. 850 g
- E. 650 g

(1)



2 Micheal has 24 coins of 10p and 50p. The total value of the coins is £4. How many of each coin does he have?

(1)

- A. 10 and 14
- B. 18 and 6
- C. 20 and 4
- D. 22 and 2
- E. 16 and 6



3

The rule to workout the next term in a sequence is: "Add the previous two terms together". The fourth term is 34 and the sixth term is 90. What are the first two terms of the sequence?

(1)

- A. 10 and 12
- B. 11 and 12
- C. 12 and 14
- D. 10 and 14
- E. 8 and 12



4

Mary is thinking of two numbers. The sum of the two numbers is 136. The difference between the two numbers is 30. What are the two numbers?

- A. 73 and 43
- B. 73 and 53
- C. 93 and 43
- D. 83 and 53
- E. 93 and 63

(1)



- 5 Newton and Lebintiz's ages add to 51. In twelve years time, Newton will be one and a half times as old as Lebintiz. How old is Newton now?

(1)



- 6 On a farm there are only cows and people. If there are 20 heads and 70 legs, how many cows are there?

(1)



7

Daisy, Gilbert and Charles are cats. Daisy and Gilbert weigh 10 kg together. Gilbert and Charles weigh 12 kg together. Charles and Daisy weigh 14 kg together.

(4)

[A]	[B]	[C]	[D]	[E]	[F]
8	18	2	4	16	6

a) How much does Daisy, Gilbert and Charles weigh altogether?

 kg

b) How much does Gilbert weigh?

 kg


c) How much does Daisy weigh?

 kg

d) How much does Charles weigh?

 kg

- 8 3 apples and 4 pears cost 120p. 4 apples and 3 pears cost 125p.
What is the cost of a pear?

(1)

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9

Jason likes to eat lots of fruits. He finds that three kiwis and two watermelons cost £2.20 and that one watermelon and three mangoes cost £3.20. How much would it cost if he bought one kiwi, one watermelon and one mango?

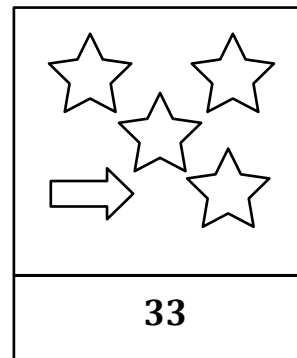
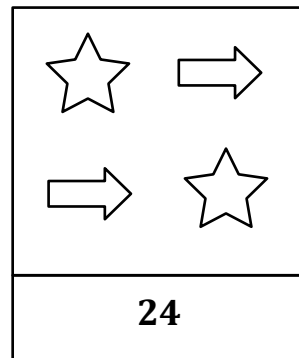
(2)

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- 10 On the cards below, each star ☆ has the same value and each arrow ⇒ has the same value (but a different value to each star). The number on each card is the total value of the symbols on that card. Find the value of one star ☆.

(2)



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CHALLENGING QUESTION

Question:

$$\text{♪} \quad \text{♪} \quad \text{♩} \quad \text{♩} = \text{£}20$$

$$\text{♩} \quad \text{♩} \quad \text{♭} \quad \text{♭} = \text{£}14$$

$$\text{♭} \quad \text{♭} \quad \text{♪} \quad \text{♪} = \text{£}18$$

Using the totals given, can you calculate the price of each of the three shapes?

