101 Must-Know Challenging Maths Word Problems

SAMPLE

Name: _____

Class: _____

Book 6

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101 MUST-KNOW CHALLENGING MATHS WORD PROBLEMS FOR PRIMARY 6

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Question

1

Peter answered 15 questions on a quiz and obtained 29 points. If 3 points were given for each correct answer and 1 point deducted for each wrong answer, how many questions did Peter answer correctly?

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Answer: _____

Question

2

A box contained 480 beads of three different colours. When 18 yellow beads were added in, 33 orange beads were taken out and the number of black beads was doubled, there was then an equal number of beads of each colour. How many beads of each colour were there at first?

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Answers: _____ yellow beads

_____ orange beads

_____ black beads

Question

3

Angie had some red and blue beads. 40% of her beads were red. When she lost 50 blue beads, the number of blue beads was reduced by $\frac{1}{3}$ its original number of beads. How many beads did Angie have in the end?

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Answer: _____

Question

4

There were 820 orange buttons in a container. The number of orange buttons was 160 fewer than the number of yellow buttons and 210 more than the number of green buttons. $\frac{1}{3}$ of the total number of buttons in the container were blue buttons. How many buttons were there altogether?

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Answer: _____

Solution to Question 1

Use a 'Guess and Check' table to find out how many questions were answered correctly

*Start the deductions by having half the number of questions answered correctly.

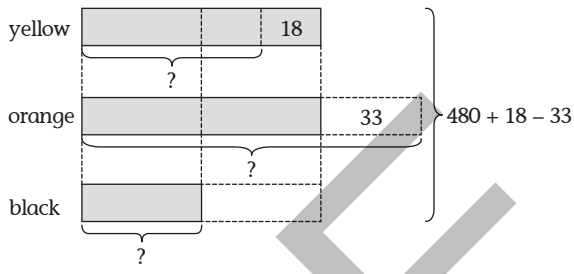
Correct Answers	Correct Points	Wrong Answers	Deducted Points	Total Points	Check
7	7 × 3 = 21	8	8 × 1 = 8	21 – 8 = 13	×
9	9 × 3 = 27	6	6 × 1 = 6	27 – 6 = 21	×
11	11 × 3 = 33	4	4 × 1 = 4	33 – 4 = 29	✓

Peter answered 11 questions correctly.

Answer: 11 questions

Solution to Question 2

Step 1 : Draw a model



Step 2 : Find the number of beads after 18 yellow beads were added and 33 orange beads were taken out

480 + 18 – 33 = 465

Step 3 : Find the number of black beads at first

5 units → 465

1 unit → 465 ÷ 5 = 93

Step 4 : Find the number of orange beads at first

2 units → 2 × 93 = 186

186 + 33 = 219

Step 5 : Find the number of yellow beads at first

186 – 18 = 168

There were 168 yellow beads, 219 orange beads and 93 black beads at first.

Answers: 168 yellow beads

219 orange beads

93 black beads

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