

Interleaf 12

1) If $a = 3$ $b = -2$ $c = -8$, find the value of:

a) $ab - c$ b) $a(b - c)$ c) $a \times \frac{b}{c}$

2) If $A = \{\text{prime numbers}\}$ and $B = \{\text{even numbers}\}$

a) Write down all the members of the set $A \cap B$

b) Write down all single digit integers in the set $A' \cup B$

3) 10 students shoe sizes are given by: 6, 3, 2, 2, 7, 5, 3, 4, 2, 8

a) Is this discrete or continuous data? b) Find the modal shoe size

c) Find the median shoe size d) Find the mean shoe size

4) $\frac{5}{7}$ of a cake with mass of 350g is flour. How much flour was used in the cake?

5) To the right is a bar chart showing the number of goals in all of a Hockey team's matches.

How many matches did they play in total?

6) Find the n th term of the following sequence:

-11, -8, -5, -2, 1, ...

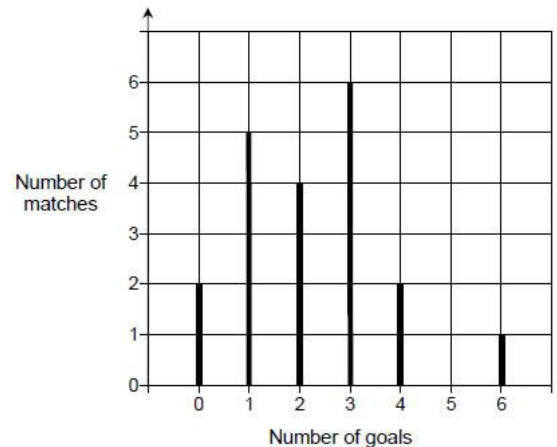
7) Suzie is 3 times as old as Annabelle and I am five years older than Annabelle.

The total of our ages is 35.

How old am I?

8) I ask 72 people for their favourite bean and 5 reply "borlotti".

If I drew a pie chart of these results, what would be the size of the borlotti sector?



Answers

1a) 2 b) 18 c) $\frac{3}{4}$ 2a) 2 b) 1,2,4,6,8,9 3a) discrete b) 2 c) 3.5 d) 4.2 4) 250g 5) 20 6) $3n-14$ 7) 11 8) 25°