## Answer 3

## Percentages

1. The value of an item is worth $£ 150$ within a year it increases by $10 \%$. What is the new value of the item?
$10 / 100=0.1$
$0.1 \times 150=15$
New value: $£ 150+£ 15=£ 165$
2. Tom wants to buy a ring for $£ 450$. The shop has a discount offer for $12 \%$ on all items. How much would he pay for the ring?
$12 / 100=0.12$
$0.12 \times 450=54$
Ring cost: $£ 450-£ 54=£ 396$
3. Sara got $60 / 80$ in her math's exam. The pass mark is $72 \%$.

What is the percentage of $60 / 80$ ? Has she passed or failed?
$60 / 80=3 / 4=0.75$
$0.75 \times 100=75 \%$
Percentage: 75\% Passed!
4. A classroom contains 25 students. Next year, there will be an increase of $20 \%$ of students. What will be the total number of students next year?

$$
\begin{aligned}
& 20 / 100=0.20 \\
& 0.20 \times 25=5 \\
& \text { Total Students: } 25+5=30
\end{aligned}
$$

5. A chocolate box contains 8 dark chocolates and 12 milk chocolates.

What is the percentage of the dark chocolates?

Total chocolates $8+12=20$
$8 / 20=0.40$
Percentage: $0.40 \times 100=40 \%$

