1. What is $^{2}/_{8}$ as a percentage?

   Answer: $^{2}/_{8} = {}^{?}/_{100}$

   $2 \times 100 = 8 \times ?$

   $? = {}^{(2 \times 100)}/_{8} = 25$

   Thus, 25%

2. Write 40% as a fraction.

   Answer: $40\% = {}^{40}/_{100} = {}^{2}/_{5}$ (divide the numerator and the denominator by 20).

3. Convert $^{1}/_{8}$ into a percentage.

   Answer: $^{1}/_{8} = {}^{?}/_{100}$

   $1 \times 100 = 8 \times ?$

   $? = {}^{100}/_{8} = 12.5$

   Thus, 12.5%

4. $^{21}/_{28}$ as a percentage is
   a) 25%
   b) 60%
   c) 75%

   Answer: (c) because $^{21}/_{28} = {}^{3}/_{4}$ (divide the numerator and the numerator by 7) and $^{3}/_{4}$ is 75%.

5. 60% as a fraction is
   a) $^{2}/_{3}$
   b) $^{3}/_{5}$
   c) $^{13}/_{20}$

   Answer: (b) because $60\% = {}^{60}/_{100} = {}^{3}/_{5}$ (divide the numerator and the denominator by 20).

6. A pizza has 8 pies. Raj eats 25% of it. How many pies does he eat?

   Answer: $25\% = {}^{1}/_{4}$. Hence $^{1}/_{4}$ of $8 = {}^{1}/_{4} \times 8 = 2$. Raj eats 2 pies.

7. Convert 15% into a fraction.

   Answer: $15\% = {}^{15}/_{100} = {}^{3}/_{20}$ (divide the numerator and the denominator by 5).

8. There are 20 pencils in a box. 7 of them are blue and the rest of them are black. What is the percentage of black pencils?

Answer: 7 are blue, so 20 -7 = 13 are black.

$^{13}/_{20} = {}^{?}/_{100}$

13 x 100 = ? x 20

$? = {}^{(13 \times 100)} / {}_{20} = 65$.

Thus, 65% pencils are black.

9. Is $^{6}/_{24}$ equal to 25%?

Answer: Yes, because $^{6}/_{24} = {}^{1}/_{4}$ and $^{1}/_{4}$ is 25%.

10. Is 30% equal to $^{10}/_{30}$?

Answer: No, because 30% = $^{30}/_{100}$ and the cross product of $^{30}/_{100}$ and $^{10}/_{30}$ is not equal.

30 x 30 = 900 is not equal to 100 x 10 = 1000.

How did you do? If you didn't do well, watch the following videos and try again!

- Percentages as Fractions
- Fractions as Percentages
- Mental Math - Percentages