



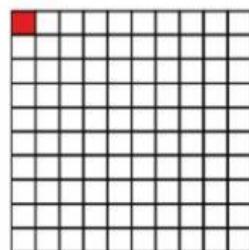
UNIT 7: PERCENTAGE

Lesson 1: Percentage

I. Basic knowledge

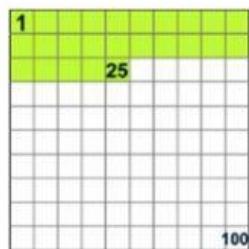
1. Percentage

When we say “Percent”, we are really saying “Per 100”



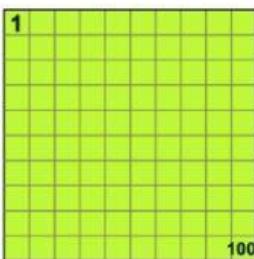
- One percent (1%) means 1 per 100.
- 1% of this box is shaded red.

It is very small, isn't it?



- 25% means 25 per 100.
- 25% of this box is shaded green.

2. Example



- **100% means all.**

Example:

$$100\% \text{ of } 80 \text{ is } \frac{100}{100} \times 80 = 80$$

- **50% means half.**

Example:

$$50\% \text{ of } 80 \text{ is } \frac{50}{100} \times 80 = 40$$



3. Using percent

**“Percent” means “Per 100” think:
“This should be divided by 100.”**

Example: When $100\% = 80$, then $75\% = 65$.

So,

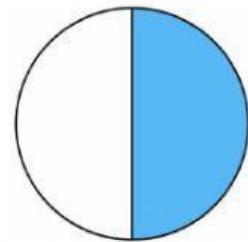
- 75% means $\frac{75}{100}$.
- 100% is exactly $\frac{100}{100} = 1$. (100% of any number is itself, unchanged.)
- 200% is exactly $\frac{200}{100} = 2$. (200% of any number is twice that number.)

A percent can also be expressed as a Decimal or Fraction

Example:

A half can be written

- as a percentage: 50%
- as a decimal: 0.5
- as a fraction: $\frac{1}{2}$



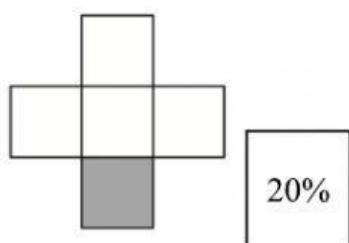
II. Vocabulary

English words	Vietnamese meaning
Percent	Phần trăm
Percentage	Tỷ lệ phần trăm

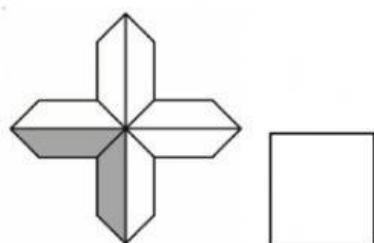
III. Practice

1. What percentage of each shape is shaded?

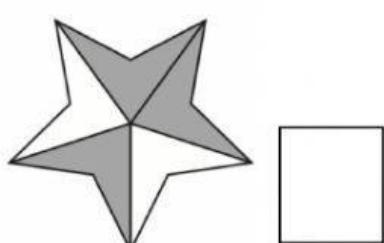
a.



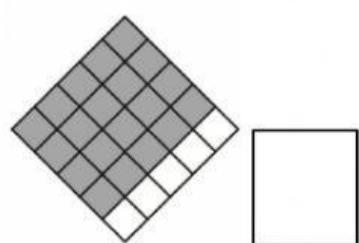
b.



c.



d.



2. Calculate.

a. 15% of 200 is _____

b. 30% of 250 is _____

c. 45% of 420 is _____

3. 15% of 200 apples are red. How many apples are red?

Answer: _____ apples.

4. 25% of a number is 60. What is the number?

Answer: _____.

5. A jacket costs \$50. In the sale, there is 20% off the jacket.

What does the jacket cost now?

Answer: \$ _____

6. The price of a coat is \$45. In a sale, the price is reduced by 15%. What is the price of the coat now?

Answer: _____