

STD - V

Percent

Percent means out of 100 or hundredths or Per hundred in other words for every hundred.

$$\text{So (i) } 50\% = \frac{50}{100} = \frac{50 \div 10}{100 \div 10} = \frac{5}{10} = 0.5$$

$$\text{(ii) } 60\% = \frac{60}{100} = \frac{60 \div 10}{100 \div 10} = \frac{6}{10} = 0.6$$

$$\text{(iii) } 75\% = \frac{75}{100} = 0.75$$

$$\text{(iv) } 68\% = \frac{68}{100} = 0.68$$

Change to a fraction in the lowest terms. Then change to a decimal.

$$\begin{aligned} 1. \quad 20\% &= \frac{20}{100} = \frac{20 \div 10}{100 \div 10} = \frac{2}{10} \text{ (in fraction)} \\ &= 0.2 \text{ (in decimal)} \end{aligned}$$

$$\begin{aligned} 2. \quad 60\% &= \frac{60}{100} = \frac{60 \div 10}{100 \div 10} = \frac{6}{10} \text{ (in fraction)} \\ &= 0.6 \text{ (in decimal)} \end{aligned}$$

$$\begin{aligned} 4. \quad 25\% &= \frac{25}{100} \text{ (in fraction)} \\ &= 0.25 \text{ (in decimal)} \end{aligned}$$

$$\begin{aligned} 5. \quad 120\% &= \frac{120}{100} = \frac{120 \div 10}{100 \div 10} = \frac{12}{10} = \text{② (in fraction)} \\ &= 1.2 \text{ (in decimal)} \end{aligned}$$

① similarly complete all.

Repeat the activity by writing numbers with 1 decimal place.
 8. Choose 3 arrow cards and build a decimal number using them, for example, 1.57

Try these:

A. Which numbers can be made by combining the following arrow cards?

- | | | | | | | | | | |
|----|------|-----|------|-------------|----|------|-----|------|-------------|
| 1. | 4 | 0.3 | 0.08 | <u>4.38</u> | 2. | 0.05 | 0.2 | 7 | <u>7.25</u> |
| 3. | 0.7 | 2 | 0.06 | <u>2.76</u> | 4. | 1 | 0.7 | 0.09 | <u>1.79</u> |
| 5. | 0.01 | 0.5 | 9 | <u>9.51</u> | 6. | 0.07 | 7 | 0.1 | <u>7.17</u> |
| 7. | 0.04 | 0.8 | 6 | <u>6.84</u> | 8. | 0.03 | 8 | 0.4 | <u>8.43</u> |

B. Fill in the blanks.

1. $3 + 0.2 + 0.04 = \underline{3.24}$

3. $\underline{2} + 0.4 + 0.06 = 2.46$

5. $4 + 0.5 + \underline{0.01} = 4.51$

7. $2 + \underline{0.9} + 0.03 = 2.93$

2. $6 + 0.3 + 0.01 = \underline{6.31}$

4. $\underline{4} + 0.6 + 0.02 = 4.62$

6. $7 + 0.9 + \underline{0.03} = 7.93$

8. $5 + \underline{0.3} + 0.08 = 5.38$