

PERCENTAGES

NON-CALCULATOR

10% RULE

Revert to finding 10% first then use to find other %s

10% means $\div 10$

10% of 250 $\rightarrow 250 \div 10 = 25$

To find 20% of 32

1st find 10% $\checkmark = 3.2$

20% = 10% $\times 2 = 3.2 \times 2 = \underline{6.4}$

To find 15% of 26

$\Rightarrow 10\% = 2.6$
 $\nearrow 5\% = \frac{1.3}{\text{1/2 of 10\%}}$
15% = 3.9

10% + 5% = 15%

CALCULATOR

CONVERT PERCENTAGE TO DECIMAL & \times BY AMOUNT

28% of 42 $\xrightarrow{28\% \rightarrow \frac{28}{100} \rightarrow 0.28}$
 $0.28 \times 42 = 11.76$

4% of 56 $\rightarrow 0.04 \times 56 = 2.24$

INCREASING BY A PERCENTAGE

① START by finding NEW PERCENTAGE

Increase £60 by 5%

① New percentage

$100\% + 5\% = 105\%$

② need to find 105% of 60 $\Rightarrow 1.05 \times 60 = \underline{\underline{£63}}$
don't forget to convert to decimal

DECREASING BY A PERCENTAGE

① AGAIN find NEW PERCENTAGE

Decrease £80 by 24%

① New percentage

$100 - 24\% = 76\%$

② Find 76% of 80 $\Rightarrow 0.76 \times 80 = \underline{\underline{£60.80}}$