

Percentage Increase and Decrease

LITERACY

Make 5 key words using the tiles and find their total value.

A ₁	B ₃	C ₃	D ₂		
E ₁	F ₄	G ₂	H ₄	I ₁	J ₈
K ₅	L ₁	M ₃	N ₁	O ₁	P ₃
Q ₁₀	R ₁	S ₁	T ₁	U ₁	V ₄
	W ₄	X ₈	Y ₄	Z ₁₀	

RESEARCH

Where and how in real life is percentage increase and decrease commonly used?

MEMORY

Remember how to make your multiplier.

Increase by 15%

$$100\% + 15\% = 115\%$$

$$115 \div 100 = \mathbf{1.15}$$

Decrease by 15%

$$100\% - 15\% = 85\%$$

$$85 \div 100 = \mathbf{0.85}$$

SKILL

- 1) £350 increase by 18%
- 2) £425 increased by 9%
- 3) £127 decreased by 19%
- 4) £148 decreased by 13.5%
- 5) A house price is reduced by 8% it originally cost £99,995. How much does it cost now?
- 6) The minimum wage is increased by 1.7% it originally was £6.10. How much is the minimum wage now?

STRETCH

Remember

New amount = Original \times multiplier

Can you find what the original price is?

A coat was reduced by 13% in a sale. The sale price is £52.20.

How much did the coat cost before the sale?

How much money are you saving?

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SKILL

- 1) £350 increase by 18%
 $1.18 \times 350 = \mathbf{£413}$
- 2) £425 increased by 9%
 $1.09 \times 425 = \mathbf{£463.25}$
- 3) £127 decreased by 19%
 $0.81 \times 127 = \mathbf{£102.87}$
- 4) £148 decreased by 13.5%
 $0.865 \times 148 = \mathbf{£128.02}$
- 5) A house price is reduced by 8% it originally cost £99,995.
How much does it cost now?
 $0.92 \times 99995 = \mathbf{£91,995.40}$
- 6) The minimum wage is increased by 1.7% it originally was £6.10.
How much is the minimum wage now?
 $1.017 \times 6.10 = \mathbf{£6.2037} \rightarrow \mathbf{£6.20}$ (2 d.p)

STRETCH

Remember

New amount = Original \times multiplier

Can you find what the original price is?

A coat was reduced by 13% in a sale. The sale price is £52.20.

How much did the coat cost before the sale?

$$52.20 = \text{Original} \times 0.87$$

$$\text{Original} = 52.20 \div 0.87 = \mathbf{£60}$$

How much money are you saving? $\mathbf{£7.80}$