Timester Challenge
Sharing into a Given Ratio

A piece of string is of length 48cm.
The length is divided into the ratio 3:5.
Work out the length of each part.

Bronze ⭐

Lauren shares money between herself, Millie and Sana in the ratio of 3:4:5.
Millie gets £32. How much money should Lauren and Sana have?

Silver ⭐

Jos is 11 years old.
Eva is 12 years old.
Keira is 13 years old.

Jos, Eva and Keira share £27 into the ratio of their ages.

Eva gives $\frac{2}{5}$ of her share to her sister.
How much money should Eva now have?

Bradley and Thomas share £300 into the ratio 7:5. Calculate how much more money Bradley receives to Thomas.

Bronze ⭐

A shop sells hardback and paperback books.
In one week the number of hardback and paperback books sold were in the ratio of 3:8.
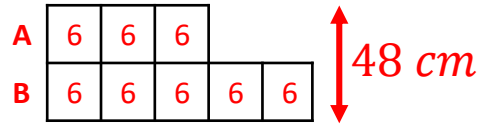210 more paperback books were sold. How many books were sold all together?

Silver ⭐

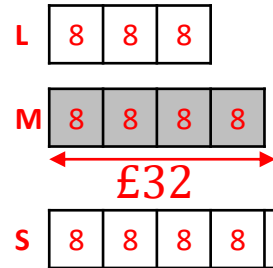**Gold** ⭐

Timester Challenge
Sharing into a Given Ratio
Answers

A piece of string is of length 48cm.
The length is divided into the ratio 3:5.
Work out the length of each part.

A | 6 | 6 | 6
B | 6 | 6 | 6 | 6 | 6

$48\ cm$

1 Box: $48 \div 8 = 6cm$

$(3 \times 6):(5 \times 6)$

$18:30$

Bronze ⭐

Lauren shares money between herself, Millie and Sana in the ratio of 3:4:5.
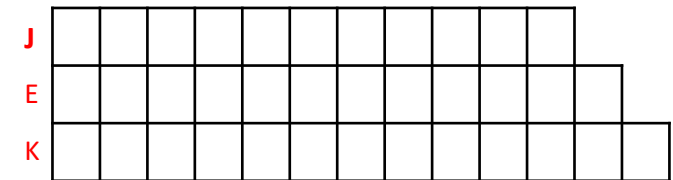Millie gets £32. How much money should Lauren and Sana have?

L | 8 | 8 | 8

M | 8 | 8 | 8 | 8

£32

S | 8 | 8 | 8 | 8 | 8

1 Box: $32 \div 4 = £8$
Lauren: $8 \times 3 = £24$
Sana: $8 \times 5 = £40$

Silver ⭐

Jos is 11 years old.
Eva is 12 years old. $11:12:13$
Keira is 13 years old.
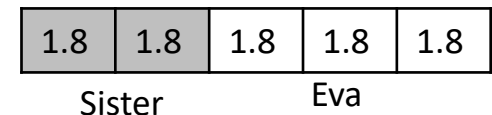Jos, Eva and Keira share £27 into the ratio of their ages.

Eva gives $\frac{2}{5}$ of her share to her sister.
How much money should Eva now have?

J
E
K

$11 + 12 + 13 = 36$

1 box: $£27 \div 36 = £0.75$

Eva: $0.75 \times 12 = £9$

$\frac{2}{5}$ of £9

| 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |

Sister   Eva

$\frac{9}{5} \times 2 = £3.60$ to sister.

Eva has $9 - 3.60 = £5.40$
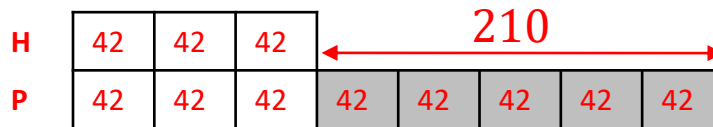
Gold ⭐

Bradley and Thomas share £300 into the ratio 7:5. Calculate how much more money Bradley receives to Thomas.

B | 25 | 25 | 25 | 25 | 25 | 25 | 25
T | 25 | 25 | 25 | 25 | 25

£300

1 Box: $300 \div 12 = £25$
Bradley receives £50 more.

Bronze ⭐

A shop sells hardback and paperback books.
In one week the number of hardback and paperback books sold were in the ratio of 3:8. 210 more paperback books were sold. How many books were sold all together?

H | 42 | 42 | 42
P | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42

210

1 Box: $210 \div 5 = 42$

$42 \times 11 = 462$ books sold.

Silver ⭐