



# Timester Challenge

## Working with Money



<p>Siraj buys 5 teas at £1.20 each 3 coffees at £1.60 each 8 sandwiches at £2.80 each.</p> <p>Siraj shares the total cost equally between 8 people. How much does each person pay?</p> <p style="text-align: right;"><b>Bronze</b> ★</p>	<p>Tobias saves 5p and 10p coins He has Five times as many 10p coins as 5p coins A total of £11.</p> <p>How many 10p coins does he have?</p> <p style="text-align: right;"><b>Silver</b> ★</p>	<p>Matt has 7 coins in his wallet. If he picks 6 coins the most he could pick is £3.90. and the least he could pick is £2.00.</p> <p>How much does he have altogether?</p> <p style="text-align: right;"><b>Gold</b> ★</p>
<p>Hassan has 97p and Mina has £4.29. Mina gives Hassan some money so that they both have the same amount. How much does Mina give Hassan?</p> <p style="text-align: right;"><b>Bronze</b> ★</p>	<p>Gemma earns £8.70 per hour. She works 32 hours each week 46 weeks each year. She pays tax if she earns over £12 500. Does Gemma pay tax?</p> <p style="text-align: right;"><b>Silver</b> ★</p>	<p>All tickets for a football match are the same price. Denise and John pay £368 altogether for some tickets. Denise pays £230 for 20 tickets.</p> <p>How many tickets does John buy?</p> <p style="text-align: right;"><b>Gold</b> ★</p>



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### Answers

<p>Siraj buys 5 teas at £1.20 each 3 coffees at £1.60 each 8 sandwiches at £2.80 each. Siraj shares the total cost equally between 8 people. How much does each person pay?</p> <p><math>(5 \times 1.2) + (3 \times 1.6) + (8 \times 2.8) = £33.20</math></p> <p><math>£33.20 \div 8 = £4.15</math> each</p> <p><b>Bronze</b> ★</p>	<p>Tobias saves 5p and 10p coins He has Five times as many 10p coins as 5p coins A total of £11. How many 10p coins does he have?</p> <p><math>(5x \times 10) + (x \times 5) = 1100</math> <math>50x + 5x = 1100</math> <math>55x = 1100</math> <math>x = 20</math></p> <p>20 5p coins and 100 10p coins</p> <p><b>Silver</b> ★</p>	<p>Matt has 7 coins in his wallet. If he picks 6 coins the most he could pick is £3.90. and the least he could pick is £2.00. How much does he have altogether?</p> <p><math>£3.90 = £1 + £1 + £1 + 50p + 20p + 20p</math> Or <math>£3.90 = £2 + £1 + 50p + 20p + 10p + 10p</math> Difference <math>£3.90 - £2 = £1.90</math> Suggests removed £2 coin and added a 10p coin in its place making 10p the lowest coin value. Total: <math>£2 + £1 + 50p + 20p + 10p + 10p = £4.00</math></p> <p><b>Gold</b> ★</p>
<p>Hassan has 97p and Mina has £4.29. Mina gives Hassan some money so that they both have the same amount. How much does Mina give Hassan?</p> <p><math>97 + 429 = 526p</math> total <math>526 \div 2 = 263p</math> each <math>263 - 97 = 166p</math></p> <p>Mina gives Hassan £1.66</p> <p><b>Bronze</b> ★</p>	<p>Gemma earns £8.70 per hour. She works 32 hours each week 46 weeks each year. She pays tax if she earns over £12 500. Does Gemma pay tax? <math>8.70 \times 32 = £278.40</math> per week <math>£278.40 \times 46 = £12 806.40</math> per year</p> <p>Yes Gemma pays tax as she is £306.40 over the threshold.</p> <p><b>Silver</b> ★</p>	<p>All tickets for a football match are the same price. Denise and John pay £368 altogether for some tickets. Denise pays £230 for 20 tickets. How many tickets does John buy? <math>230 \div 20 = £11.50</math> per ticket <math>£368 \div £11.50 = 32</math> tickets in total John buys <math>32 - 20 = 12</math> tickets</p> <p><b>Gold</b> ★</p>