



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;">Bronze ★</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;">Silver ★</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;">Gold ★</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;">Bronze ★</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;">Silver ★</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;">Gold ★</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> $(5 \times 1.2) + (3 \times 1.6) + (8 \times 2.8) = \text{£}33.20$ $\text{£}33.20 \div 8 = \text{£}4.15 \text{ each}$ <p style="text-align: right;">Bronze ★</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> $(5x \times 10) + (x \times 5) = 1100$ $50x + 5x = 1100$ $55x = 1100$ $x = 20$ <p>20 5p coins and 100 10p coins</p> <p style="text-align: right;">Silver ★</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> $\text{£}3.90 = \text{£}1 + \text{£}1 + \text{£}1 + 50p + 20p + 20p$ <p>Or</p> $\text{£}3.90 = \text{£}2 + \text{£}1 + 50p + 20p + 10p + 10p$ <p>Difference $\text{£}3.90 - \text{£}2 = \text{£}1.90$ Suggests removed £2 coin and added a 10p coin in its place making 10p the lowest coin value. Total: $\text{£}2 + \text{£}1 + 50p + 20p + 10p + 10p = \text{£}4.00$</p> <p style="text-align: right;">Gold ★</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> $97 + 429 = 526p \text{ total}$ $526 \div 2 = 263p \text{ each}$ $263 - 97 = 166p$ <p>Mina gives Hassan £1.66</p> <p style="text-align: right;">Bronze ★</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? $8.70 \times 32 = \text{£}278.40 \text{ per week}$ $\text{£}278.40 \times 46 = \text{£}12 806.40 \text{ per year}$ Yes Gemma pays tax as she is £306.40 over the threshold.</p> <p style="text-align: right;">Silver ★</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? $230 \div 20 = \text{£}11.50 \text{ per ticket}$ $\text{£}368 \div \text{£}11.50 = 32 \text{ tickets in total}$ John buys $32 - 20 = 12 \text{ tickets}$</p> <p style="text-align: right;">Gold ★</p>