



Timester Challenge

Add and Subtract Fractions



Work out $\frac{1}{2} + \frac{1}{4}$
Circle the correct answer.

$\frac{2}{6}$ $\frac{1}{4}$ $\frac{3}{4}$ $\frac{2}{8}$ **Bronze** ★

Calculate $3\frac{5}{7} + 2\frac{4}{7}$
Give your answer as a mixed number.

Bronze ★

Jessica has done some calculations.
Explain how you know the answer is wrong without working out the correct answer.

$$\frac{5}{8} - \frac{2}{5} = \frac{3}{3}$$

Bronze ★

Work out

$$\frac{4}{7} + \frac{3}{5}$$

Give your answer as a mixed number.

Silver ★

Josh worked out $\frac{3}{4} - \frac{1}{5}$.
He wrote:

$$\frac{3}{4} - \frac{1}{5} = \frac{3}{20} - \frac{1}{20} = \frac{2}{20} = \frac{1}{10}$$

The answer of $\frac{1}{10}$ is wrong.

a) Describe one mistake that Josh made.

b) Work out the correct answer.

Silver ★

ABCD is a square.

The diagram is drawn accurately.
What fraction of the square ABCD is shaded?

Gold ★



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Answers



| | | |
|--|--|---|
| <p>Work out $\frac{1}{2} + \frac{1}{4}$ Circle the correct answer.</p> <p>$\frac{2}{6}$ $\frac{1}{4}$ $\frac{3}{4}$ $\frac{2}{8}$ Bronze ★</p> | <p>Work out</p> $\frac{4}{7} + \frac{3}{5}$ <p>Give your answer as a mixed number.</p> $\frac{20}{35} + \frac{21}{35} = \frac{41}{35} = 1\frac{6}{35}$ <p>Silver ★</p> | <p>ABCD is a square.</p> <p>The diagram is drawn accurately. What fraction of the square ABCD is shaded?</p> $\frac{2}{4} + \frac{4}{16} + \frac{6}{64}$ $= \frac{16}{32} + \frac{8}{32} + \frac{3}{32}$ $= \frac{27}{32}$ <p>Gold ★</p> |
| <p>Calculate $3\frac{5}{7} + 2\frac{4}{7}$ Give your answer as a mixed number.</p> $5\frac{5+4}{7} = 5\frac{9}{7} = 6\frac{2}{7}$ <p>Bronze ★</p> | <p>Josh worked out $\frac{3}{4} - \frac{1}{5}$. He wrote:</p> $\frac{3}{4} - \frac{1}{5} = \frac{3}{20} - \frac{1}{20} = \frac{2}{20} = \frac{1}{10}$ <p>The answer of $\frac{1}{10}$ is wrong.</p> <p>a) Describe one mistake that Josh made. He only adjusted the denominators when finding the common denominator of 20. This means $\frac{3}{4} \neq \frac{3}{20}$ and $\frac{1}{5} \neq \frac{1}{20}$</p> <p>b) Work out the correct answer.</p> $\frac{15}{20} - \frac{4}{20} = \frac{11}{20}$ <p>Silver ★</p> | |
| <p>Jessica has done some calculations. Explain how you know the answer is wrong without working out the correct answer.</p> $\frac{5}{8} - \frac{2}{5} = \frac{3}{3}$ <p>$\frac{5}{8}$ and $\frac{2}{5}$ are both less than one, so when subtracting one from another the answer must be less than 1.</p> <p>Bronze ★</p> | | |