## Timester Challenge Multiply and Dividing Fractions

Give your answer in it's simplest form.

Bronze 7
Work out $\frac{3}{5} \div \frac{5}{9}$
Give your answer in it's simplest form.

Bronze
Work out

$$
1 \frac{3}{7} \times 2 \frac{4}{5}
$$

Give your answer as a mixed number in it's simplest form.

Calculate

$$
3 \frac{1}{3} \div 2 \frac{3}{5}
$$

Give your answer as a mixed number in its lowest terms.

Frank worked out $2 \frac{1}{4} \times 3 \frac{1}{2}$.
He wrote:
$2 \times 3=6$ and $\frac{1}{4} \times \frac{1}{2}=\frac{1}{8}$
So $2 \frac{1}{4} \times 3 \frac{1}{2}=6 \frac{1}{8}$
The answer of $6 \frac{1}{8}$ is wrong.
Describe one mistake Frank made.
Write the numbers $2,3,4$ and 5 in the boxes to give the greatest possible total. You may only write each number once.
a)

b)

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| Work out $\frac{2}{7} \times \frac{3}{4}$. | Calculate |
| :--- | :--- |

Give your answer in it's simplest form.

$$
\frac{3}{5} \times \frac{9}{5}=\frac{27}{25}=1 \frac{3}{25}
$$

## Bronze

Work out

$$
1 \frac{3}{7} \times 2 \frac{4}{5}
$$

Give your answer as a mixed number in it's simplest form.

$$
\frac{10}{7} \times \frac{14}{5}=\frac{140}{35}=4
$$

Bronze 4

$$
3 \frac{1}{3} \div 2 \frac{3}{5}
$$

Give your answer as a mixed number in its lowest terms.
$\frac{10}{3} \div \frac{13}{5}=\frac{10}{3} \times \frac{5}{13}=\frac{50}{39}=1 \frac{11}{39}$
Frank worked out $2 \frac{1}{4} \times 3 \frac{1}{2}$.
He wrote: $2 \times 3=6$ and $\frac{1}{4} \times \frac{1}{2}=\frac{1}{8}$
So $2 \frac{1}{4} \times 3 \frac{1}{2}=6 \frac{1}{8}$ The answer of $6 \frac{1}{8}$ is wrong.
Describe one mistake Frank made.
He forgot to multiply every term
together. E.g. $2 \times \frac{1}{2}, 3 \times \frac{1}{4}$
It is easier to convert to an improper
(top heavy) fraction first.

Write the numbers $2,3,4$ and 5 in the boxes to give the greatest possible total.
You may only write each number once.

b)

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