

Worksheet

Fractions

1. Alba Fragile Bricks Company (Greenock) PLC produce 912 units in their first week of business. Unfortunately, $\frac{1}{2}$ of the units are destroyed during loading onto transport. The manager of production asks for $\frac{1}{4}$ of all destroyed items to be retained for investigation.

How many units are retained for investigation?

ANSWER: $\frac{1}{2}$ of 912 = 456 broken units, $\frac{1}{4}$ of 456 = 114 are retained.

2. Add the fractions together, showing your workings: $\frac{2}{7} + \frac{2}{5}$

ANSWER:

Step 1 is multiply each numerator by opposite denominator, then add together...
 $2 \times 5 = 10$ and $2 \times 7 = 14$ Then Added Together $10 + 14 = 24$

Step 2 is multiply each denominator by each other ...
 $7 \times 5 = 35$

Therefore, the answer is: $\frac{24}{35}$

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3. Add the fractions together, showing your workings: $\frac{2}{5} + \frac{3}{8}$

ANSWER:

Step 1 is multiply each numerator by opposite denominator, then add together...
 $2 \times 8 = 16$ and $3 \times 5 = 15$ Then Added Together $16 + 15 = 31$

Step 2 is multiply each denominator by each other ...
 $5 \times 8 = 40$

Therefore, the answer is: $31/40$

4. Employees of a manufacturer share overtime during the early part of a week.
 $2/5$ ths work overtime on a Tuesday night, $1/3$ work overtime on a Wednesday night and the rest worked overtime on a Thursday night.
What fraction of the workforce worked on a Thursday night?

ANSWER: $2/5 + 1/3 = 11/15$ leaving $4/15$ ths for the Thursday night.

Numerator: $2 \times 3 = 6$ and $1 \times 5 = 5$... then added together $6 + 5 = 11$
Denominator: $5 \times 3 = 15$

5. What is 38% as a fraction and as a decimal?

ANSWER: As a fraction $38/100$ and decimal 0.38