1. Terrence finished a word search in $\frac{3}{4}$ the time it took Frank. Charlotte finished the word search in $\frac{2}{3}$ the time it took Terrence. Frank finished the word search in 32 minutes. How long did it take Charlotte to finish the word search?

Terrence: 

\[ 8 \times 3 = 24 \]
\[ 8 \longdiv{24} 24 \div 3 = 8 \]

Charlotte: 

\[ \text{It took Charlotte} \]
\[ 16 \text{ minutes to finish} \]
\[ \text{the word search.} \]

Francis: 

\[ 32 \div 4 = 8 \]

2. Ms. Phillips ordered 56 pizzas for a school fundraiser. Of the pizzas ordered, $\frac{2}{5}$ of them were pepperoni, 19 were cheese, and the rest were veggie pizzas. What fraction of the pizzas was veggie?

Pizzas: 

\[ \text{Pizza} \]
\[ \text{Pepperoni} \]
\[ 16 \]
\[ \text{Cheese} \]
\[ 19 \]
\[ \text{Veggie} \]
\[ 21 \]

\[ \frac{21}{56} \text{ were veggie or } \frac{3}{8} \cdot \frac{21}{56} \div 7 = \frac{3}{8} \]
3. In an auditorium, \( \frac{1}{5} \) of the students are fifth graders, \( \frac{1}{3} \) are fourth graders, and \( \frac{1}{4} \) of the remaining students are second graders. If there are 96 students in the auditorium, how many second graders are there?

Students

\[
\begin{array}{l}
16 & 16 & 16 & 16 & 16 & 96 \\
\text{5th} & \text{Remaining} & 4th \\
16 & 48 & 96 & & & \\
- & - & - & & & \\
& & & & \frac{1}{3} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{array}
\]

\[
16 \div 3 = 48
\]

\[
\begin{array}{l}
16 & 48 \\
\text{Remaining} & 48 \\
- & - \\
& & \frac{48}{4} = 12 \\
& & 12 \text{ students were 2nd graders.}
\end{array}
\]

4. At a track meet, Jacob and Daniel compete in the 220-m hurdles. Daniel finishes in \( \frac{3}{4} \) of a minute. Jacob finishes with \( \frac{5}{12} \) of a minute remaining. Who ran the race in the faster time?

Daniel

\[
\begin{array}{l}
15 & \times 3 = 45 \\
15 & 15 & 15 & 15 \\
\text{Finish}
\end{array}
\]

1 minute = 60 sec.

\[
\begin{array}{l}
15 & \div 4 = 5 \\
4 & \text{left} \\
20 & \text{left}
\end{array}
\]

Jacob

\[
\begin{array}{l}
5 & \times 7 = 35 \\
5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 \\
\text{Finish}
\end{array}
\]

1 min. = 60 sec.

\[
\begin{array}{l}
15 & \div 5 = 5 \\
5 & \text{left} \\
20 & \text{left}
\end{array}
\]

Jacob finished quicker than Daniel.

Bonus: Express the difference in their times as a fraction of a minute.

Daniel: 45 sec.

Jacob: 35 sec.

Difference: 10 seconds = \( \frac{10}{60} \) of a minute

= \( \frac{1}{6} \) of a minute.
5. Create and solve a story problem about a runner who is training for a race. Include at least one fraction in your story.

A runner is training for a 48 km race. He can run \( \frac{3}{4} \) of the race at a steady tempo. Of the remaining distance, he needs to walk for \( \frac{1}{3} \) of it. How long (distance) does he need to walk?

48 \div 4 = 12

He walks for 4 km.

6. Create and solve a story problem about two friends and their weekly allowance whose solution is given by the expression \( \frac{1}{5} \times (12 + 8) \).

There are 2 friends who are putting their allowance together to buy treats. One friend has $12 and the other has $8. They divide their money equally so they can buy 5 different treats. How much will each treat cost?

\[
\text{treat cost} \quad \frac{4444}{4} = \frac{12 + 8}{20} = \frac{20}{5} = 4
\]

Each treat will cost $4.