

#1

While training for a race, a runner runs for  $9\frac{1}{4}$  miles in an hour. If the race is  $10\frac{3}{4}$  longer than the runner's training run, how many miles is the race? (Simplify your answer and write it as a proper fraction or a mixed number.)

miles

Show your work

#2

### Choose the best answer

If Kevin spends  $9\frac{2}{3}$  months travelling Europe and spends  $4\frac{1}{2}$  as much time traveling Asia, how much time does Kevin spend travelling Asia? (Simplify your answer and write it as a proper fraction or a mixed number.)

- $43\frac{7}{8}$
- $43\frac{4}{7}$
- $43\frac{1}{2}$
- $43\frac{5}{7}$

Show your work

#3

### Choose the best answer

It takes Evan  $6\frac{1}{4}$  minutes to walk to school every morning. If it takes Diana  $3\frac{2}{4}$  times as long to walk to school than Evan, how long does it take Diana to walk to school? (Simplify your answer and write it as a proper fraction or a mixed number.)

- $21\frac{1}{6}$
- $21\frac{7}{8}$
- $21\frac{2}{9}$
- $21\frac{3}{8}$

Show your work

#4

## Choose the best answer

It takes Aiden  $2\frac{3}{4}$  minutes to walk to school every morning.

If it takes Nick  $6\frac{3}{4}$  times as long to walk to school than Aiden, how long does it take Nick to walk to school?

(Simplify your answer and write it as a proper fraction or a mixed number.)

$18\frac{3}{8}$

$18\frac{9}{16}$

$18\frac{7}{9}$

$18\frac{8}{9}$

Show your work

#5

Steven made strawberry jam and raspberry jam.

He made enough strawberry jam to fill  $4\frac{1}{4}$  jars. If

he made  $1\frac{1}{4}$  times as much raspberry jam as strawberry jam, how many jars will the raspberry jam fill? (Simplify your answer and write it as a proper fraction or a mixed number.)

jars

Show your work

#6

If it rains  $5\frac{2}{4}$  inches on Thursday and it rains  $7\frac{3}{4}$  times as much on Friday, how much did it rain on Friday? (Simplify your answer and write it as a proper fraction or a mixed number.)

inches

Show your work

#7

## Choose the best answer

A rocket travels  $5\frac{3}{4}$  miles into the air on its first launch. For the second launch its engine is replaced with a much more power engine. The rocket then travels  $10\frac{3}{4}$  times higher than the first launch. How many miles into the air does the rocket travel on the second launch? (Simplify your answer and write it as a proper fraction or a mixed number.)

$61\frac{6}{7}$

$61\frac{4}{7}$

$61\frac{5}{7}$

$61\frac{13}{16}$

Show your work

#8

On Monday Savannah spent  $9\frac{1}{4}$  hours studying for her math test. On Tuesday, Savannah studies for  $10\frac{1}{3}$  times as long. How many hours did Savannah study on Tuesday? (Simplify your answer and write it as a proper fraction or a mixed number.)

hours

Show your work

#9

A rocket travels  $8\frac{2}{3}$  miles into the air on its first launch. For the second launch its engine is replaced with a much more power engine. The rocket then travels  $4\frac{2}{3}$  times higher than the first launch. How many miles into the air does the rocket travel on the second launch? (Simplify your answer and write it as a proper fraction or a mixed number.)

miles

Show your work

#10

While training for a race, a runner runs for  $3\frac{1}{4}$  miles in an hour. If the race is  $6\frac{2}{3}$  longer than the runner's training run, how many miles is the race? (Simplify your answer and write it as a proper fraction or a mixed number.)

miles

Show your work

#11

At half time, a soccer team eats  $4\frac{3}{4}$  watermelons. At the next game, the team eats  $7\frac{2}{3}$  the number of watermelons. How many watermelons did the soccer team eat at the second game? (Simplify your answer and write it as a proper fraction or a mixed number.)

watermelons

Show your work

#12

Abigail gets a pizzeria. On her first day, Abigail can make  $9\frac{2}{3}$  pizzas an hour. After training for a week, she can make  $2\frac{3}{4}$  times as many pizzas an hour. How many pizzas can Abigail make an hour after training? (Simplify your answer and write it as a proper fraction or a mixed number.)

pizzas

Show your work

Question	Answer
#1	$99 \frac{7}{16}$
#2	$43 \frac{1}{2}$
#3	$21 \frac{7}{8}$
#4	$18 \frac{9}{16}$
#5	$5 \frac{5}{16}$
#6	$42 \frac{5}{8}$
#7	$61 \frac{13}{16}$
#8	$95 \frac{7}{12}$
#9	$40 \frac{4}{9}$
#10	$21 \frac{2}{3}$
#11	$36 \frac{5}{12}$
#12	$26 \frac{7}{12}$