Exercises on applications of fractions

Tolentino Tuition
Modbury Heights, tolentinotuition.com
Grade 7 Mathematics
27 March 2026

Contents

Exercise 1

A. What number is $\frac{5}{7}$ less than $9\frac{4}{6}$?

B. What number is $\frac{2}{5}$ more than $7\frac{3}{4}$?

C. What number is $\frac{2}{3}$ less than $10\frac{9}{12}$?

Challenge

D. What number is $\frac{1}{5}$ of $6\frac{5}{6}$?

E. What number is $\frac{2}{13}$ of $4\frac{8}{9}$?

F. What number is $\frac{1}{6}$ of $5\frac{3+(4\times2)}{14}$?

G. What number is $\frac{3}{5}$ of $7\frac{(12\div4)+4^2}{8}$?

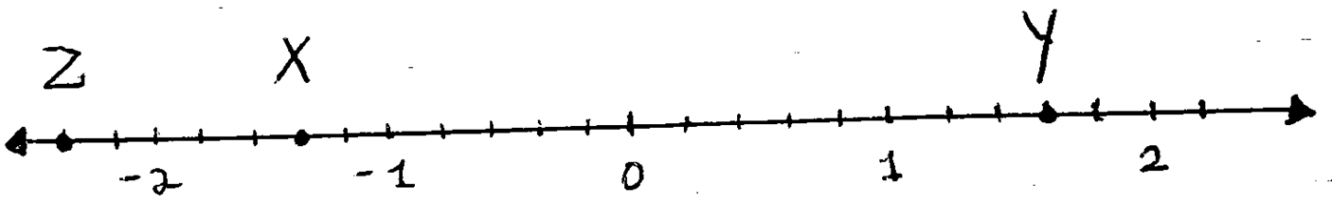
H. What number is $\frac{3}{5}$ of $7\frac{(12\div4)+4^2}{8}$?

I. What number is $\frac{2}{9}$ of $3^3\frac{(18\div6)+5^2-(7\times3)}{15}$?

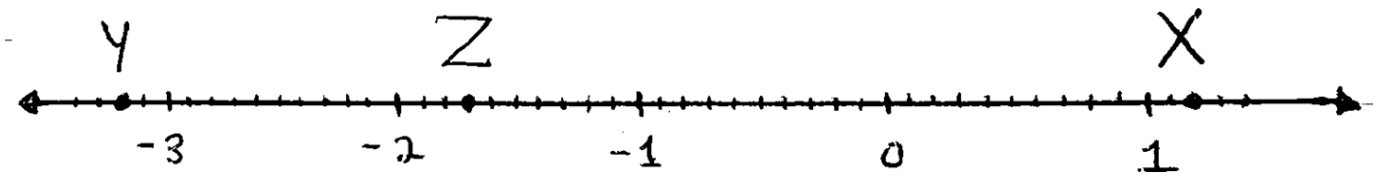
Exercise 2

Find the fractions represented by the points X, Y and Z:

1.



2.



Exercise 3

1. Find the reciprocal of

   A. $-\frac{2}{5}$ B. $4\frac{5}{6}$ C. $-7\frac{2}{11}$ D. $12\frac{8}{13}$ E. $23\frac{14}{25}$ F. $-31\frac{21}{33}$

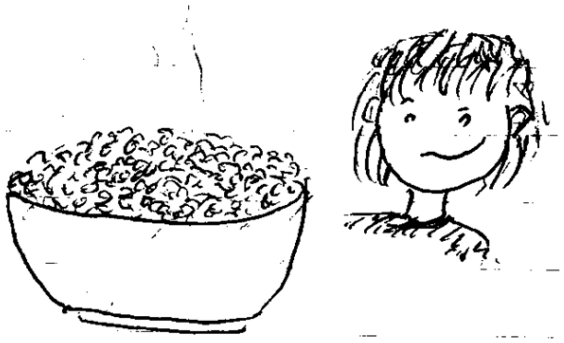
2. Find the negative reciprocal of

   A. $-\frac{1}{4}$ B. $3\frac{7}{11}$ C. $-10\frac{12}{19}$ D. $25\frac{7}{21}$ E. $34\frac{10}{34}$ F. $-46\frac{6^2}{45}$

Exercise 4

Tip: Draw what each question is asking you!

1. 420 kg of oak wood is used to make pig statues weighing $14\frac{4}{2}$ kg each. How many pig statues are made?



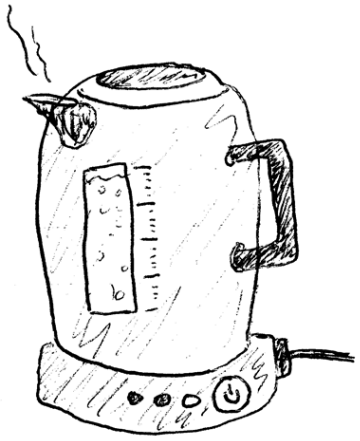
Challenge

2. Lana cooked 377 g of rice on Monday, as she was inviting some friends over for dinner. Lana served each friend the same amount of rice, then ate the remaining rice herself.

   If Lana ate 37 g of rice on Monday, and served each friend $42\frac{1}{2}$ g of rice, how many friends did she invite for dinner?

Exercise 5

Tip: Draw what each question is asking you!



1. A kettle was filled up and left to boil. After the water had boiled, at $10:12\ am$ $\frac{2}{6}$ of the water in the kettle was used to make tea.
   At $10:15\ am$, $\frac{1}{8}$ of the **remaining water** in the kettle was used to make a hot chocolate.
   At $10:17\ am$, $\frac{1}{2}$ of the **remaining water** in the kettle was used to make a second tea.

   A. What fraction of the **full kettle** remained at $10:15\ am$?

   B. What fraction of the **full kettle** remained at $10:17\ am$?

   Challenge

   C. If the kettle holds $350\ mL$ when full, how much water was taken out of the kettle at

      i. $10:12\ am$?
      ii. $10:15\ am$?
      iii. $10:17 am$?