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Introducing Fractions

EXAMPLES

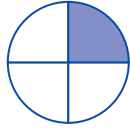
1. Write a fraction for the colored part in each diagram.

a.



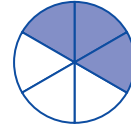
$$\frac{1}{3}$$

b.



$$\frac{1}{4}$$

c.

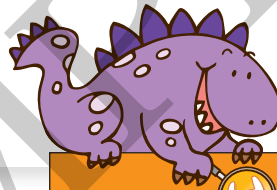
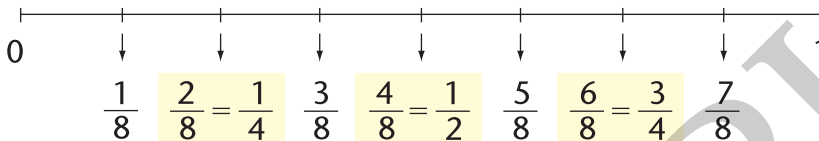


$$\frac{3}{6} = \frac{1}{2}$$

2. Write the fraction in its simplest form.

$$\frac{10}{15} = \frac{10 \div 5}{15 \div 5} = \frac{2}{3}$$

3. Label each of the divisions on the number line below. Write the fractions in simplest form.



HINTS:

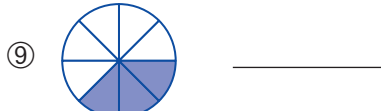
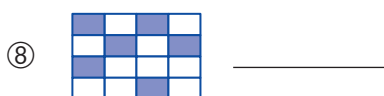
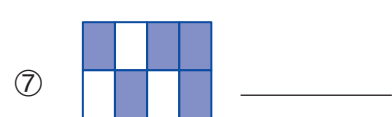
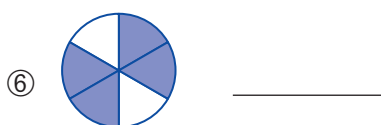
Write the fractions represented on the number line below.



① _____ ② _____

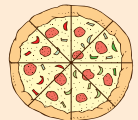
③ _____ ④ _____

Write a fraction for the colored part in each diagram.



- A fraction represents a part of a whole or a part of a set.

e.g. 3 slices of an 8-slice pizza
= $\frac{3}{8}$ of the pizza

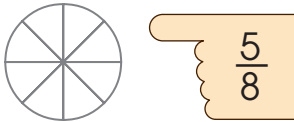


- To represent a fraction in simplest form, divide both the numerator and denominator by the greatest common factor.

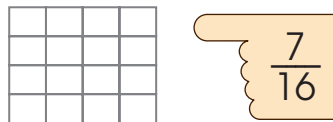
- A fraction in simplest form means the only number that will divide into both the numerator and denominator is 1.

Color the diagrams to show each fraction.

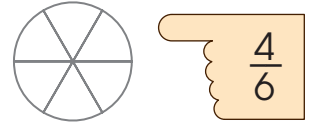
⑪



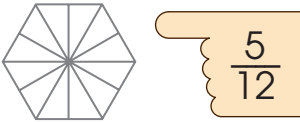
⑫



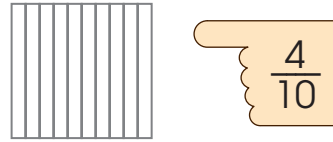
⑬



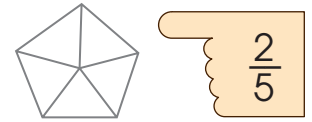
⑭



⑮



⑯



Place the following fractions on the number line below.

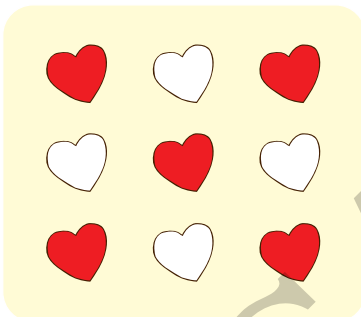
$\frac{1}{10}$ $\frac{2}{5}$ $\frac{1}{2}$ $\frac{9}{10}$ $\frac{1}{20}$ $\frac{4}{5}$

⑰

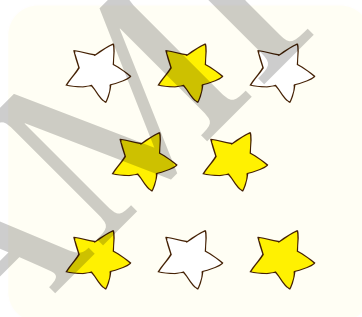


Write a fraction for the colored shapes of each set.

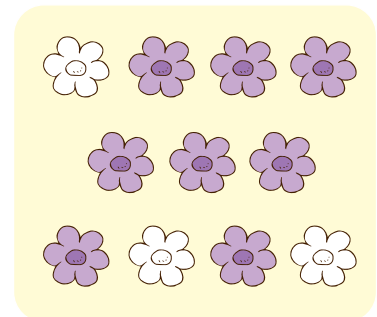
⑱



⑲

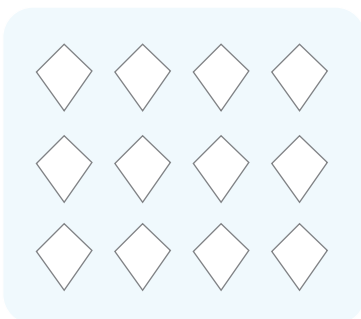


⑳



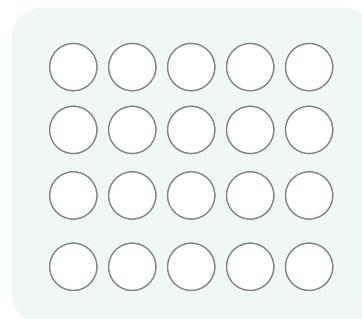
Color the correct number of shapes to show each fraction.

㉑



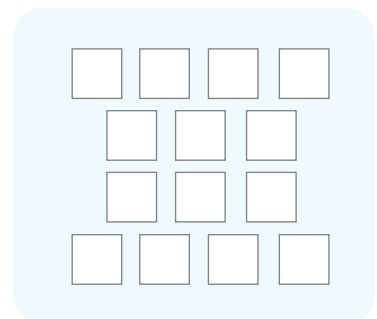
$\frac{8}{12}$

㉒



$\frac{11}{20}$

㉓



$\frac{9}{14}$

⑳ $\frac{5}{8} = \square$

㉑ $\frac{7}{20} = \square$

㉒ $\frac{9}{25} = \square$

㉓ $1\frac{1}{5} = \square$

㉔ $2\frac{6}{40} = \square$

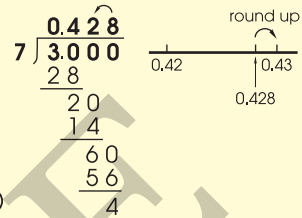
㉕ $12\frac{24}{125} = \square$



Change fractions into decimals:

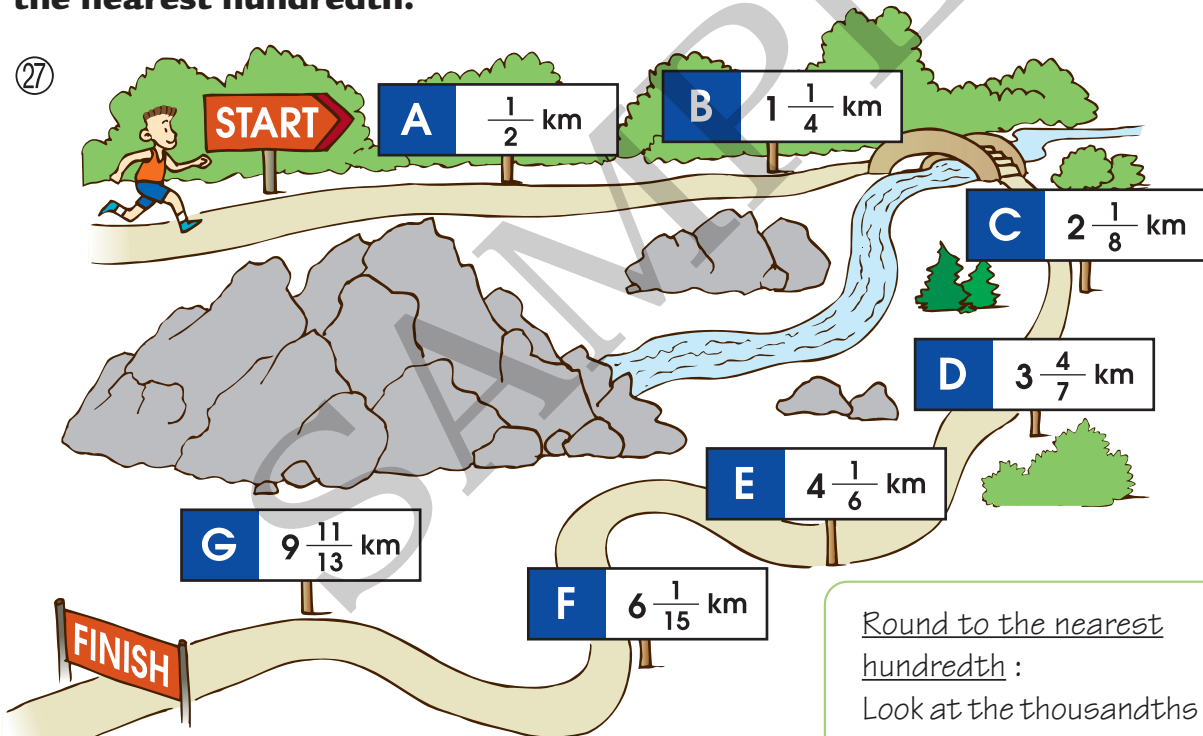
Divide the numerator by the denominator; add zeros to the dividend when necessary.

Example $\frac{3}{7} = 0.43$ (rounded to the nearest hundredth)



Change all the signs on Tony's running course into decimals. Round to the nearest hundredth.

㉖



A km

B km

C km

D km

E km

F km

G km

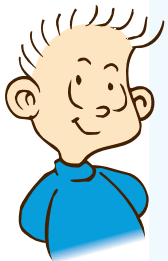
Round to the nearest hundredth:

Look at the thousandths digit. If it is 5 or more, round up. Add 1 to the hundredths digit.



Multiplying decimals :

Example $0.25 \times 0.5 = 0.125$



$$\begin{array}{r} 0.25 \\ \times 0.5 \\ \hline 0.125 \end{array}$$

2 decimal places
1 decimal place
 $2 + 1 = 3$
3 decimal places

- 1st** Align the right-hand digits.
- 2nd** Multiply as with whole numbers.
- 3rd** Count the number of decimal places in both factors and find the sum.
- 4th** Place the decimal point in the product.

Put the decimal points in the products correctly.

⑳ $\begin{array}{r} 1.6 \\ \times 1.3 \\ \hline 208 \end{array}$

㉑ $\begin{array}{r} 2.1 \\ \times 3.0 \\ \hline 630 \end{array}$

㉒ $\begin{array}{r} 0.93 \\ \times 1.2 \\ \hline 1116 \end{array}$

㉓ $\begin{array}{r} 1.50 \\ \times 0.81 \\ \hline 12150 \end{array}$

Find the answers.

㉔ $\begin{array}{r} 1.3 \\ \times 1.9 \\ \hline \\ \hline \end{array}$

㉕ $\begin{array}{r} 3.06 \\ \times 1.4 \\ \hline \\ \hline \end{array}$

㉖ $\begin{array}{r} 0.06 \\ \times 0.12 \\ \hline \\ \hline \end{array}$



Place the decimal point in the product. Insert zero(s) as needed.

㉗ $0.62 \times 1.40 = \underline{\hspace{2cm}}$

㉘ $4.8 \times 0.31 = \underline{\hspace{2cm}}$

㉙ $2.5 \times 0.3 = \underline{\hspace{2cm}}$

㉚ $1.62 \times 1.30 = \underline{\hspace{2cm}}$

㉛ $1.2 \times 1.03 = \underline{\hspace{2cm}}$

㉜ $1.45 \times 0.42 = \underline{\hspace{2cm}}$