

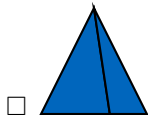
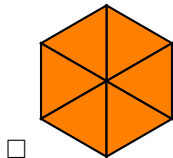
# FRACTIONS

## A DEFINITIONS

### A.1 DETERMINING IF EQUAL PARTS

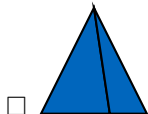
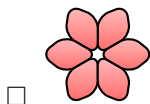
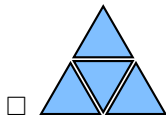
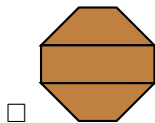
**MCQ 1:** Which figures are divided into equal parts?

Choose all the correct answers:

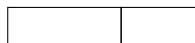


**MCQ 2:** Which figures are divided into equal parts?

Choose all the correct answers:



**MCQ 3:** Louis has a cake that he wants to share with his brother Hugo. He decides to cut the cake into two parts:



Louis picks one of the two parts.



Louis says: "I chose 1 out of the 2 parts. So, I have  $\frac{1}{2}$  of the cake, and you have  $\frac{1}{2}$  of the cake! It's fair." Do you agree with Louis?

Choose one answer:

Yes

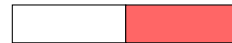
No

**MCQ 4:** Louis and Hugo have a cake. Their father explains the fair way to share: "One of you cuts the cake into two pieces, and the other one gets to choose his piece first."

Following their father's advice, Louis cuts the cake into two equal parts:



After Louis cuts the cake, Hugo chooses one of the two parts.



Hugo says: "I chose one of the two equal parts. So, I have  $\frac{1}{2}$  of the cake and you, Louis, also have  $\frac{1}{2}$  of the cake! It's fair." Do you agree with Hugo?

Choose one answer:

Yes

No

### A.2 FINDING FRACTIONS

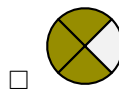
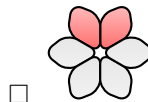
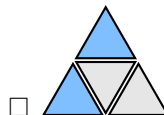
**MCQ 5:** Which shapes have  $\frac{2}{3}$  of their area shaded?

Choose all the correct answers:



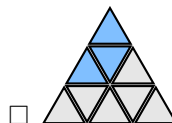
**MCQ 6:** Which shapes have  $\frac{2}{4}$  of their area shaded?

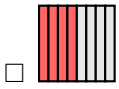
Choose all the correct answers:



**MCQ 7:** Which shapes have  $\frac{3}{8}$  of their area shaded?

Choose all answers:





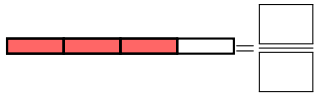
**MCQ 8:** Which shapes have  $\frac{2}{4}$  of their area shaded?

Choose all answers:

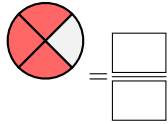
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### A.3 FINDING FRACTIONS IN DIAGRAMS

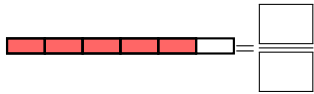
**Ex 9:** Find the fraction of the area of the shape that is shaded:



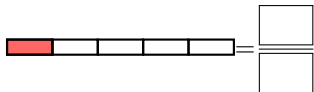
**Ex 10:** Find the fraction of the area of the shape that is shaded:



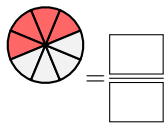
**Ex 11:** Find the fraction of the area of the shape that is shaded:



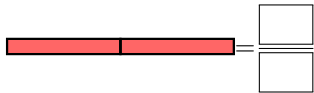
**Ex 12:** Find the fraction of the area of the shape that is shaded:



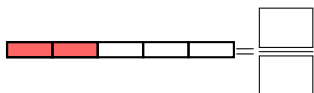
**Ex 13:** Find the fraction of the area of the shape that is shaded:



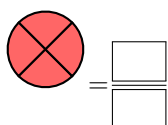
**Ex 14:** Find the fraction of the area of the shape that is shaded:



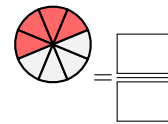
**Ex 15:** Find the fraction of the area of the shape that is shaded:



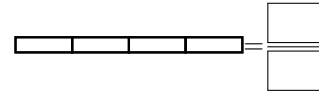
**Ex 16:** Find the fraction of the area of the shape that is shaded:



**Ex 17:** Find the fraction of the area of the shape that is shaded:

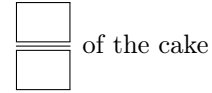


**Ex 18:** Find the fraction of the area of the shape that is shaded:

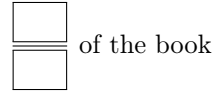


### A.4 FINDING FRACTIONS IN WORD PROBLEMS

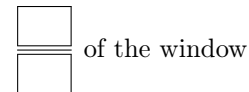
**Ex 19:** Hugo eats 3 parts of a cake that is divided into 4 equal parts. What fraction of the cake does Hugo eat?



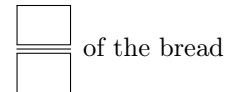
**Ex 20:** Liam reads 5 chapters of a book that has 8 chapters. What fraction of the book does Liam read?



**Ex 21:** Vanessa paints 5 squares on a window that has 6 equal squares. What fraction of the window did she paint?



**Ex 22:** Sophia cuts her loaf of bread into 8 equal slices. She uses 2 slices to make sandwiches. What fraction of the bread did Sophia use to make the sandwiches?



### A.5 FINDING NUMERATORS AND DENOMINATORS

**Ex 23:** State the numerator of the fraction  $\frac{3}{5} =$



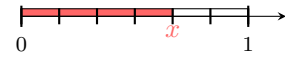
**Ex 24:** State the denominator of the fraction  $\frac{4}{9} =$



**Ex 25:** State the denominator of the fraction  $\frac{5}{6} =$



Ex 26: State the numerator of the fraction  $\frac{0}{3} =$



$$x = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Ex 35: Find the value of  $x$



$$x = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

## A.6 WRITING FRACTIONS FROM WORDS

Ex 27: Write as fraction:

one over four =  $\frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

Ex 28: Write as fraction:

three over five =  $\frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

Ex 29: Write as fraction:

three quarters =  $\frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$

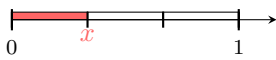
Ex 30: Write as fraction:

six over hundred =  $\frac{\boxed{\phantom{00}}}{\boxed{\phantom{0000}}}$

## B ON THE NUMBER LINE

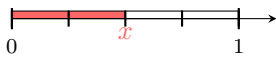
### B.1 FINDING FRACTIONS WITH BAR FRACTION MODEL

Ex 31: Find the value of  $x$



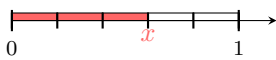
$$x = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Ex 32: Find the value of  $x$



$$x = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Ex 33: Find the value of  $x$

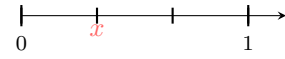


$$x = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Ex 34: Find the value of  $x$

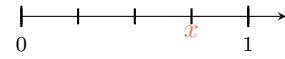
### B.2 FINDING FRACTIONS

Ex 36: Find the value of  $x$



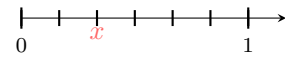
$$x = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Ex 37: Find the value of  $x$



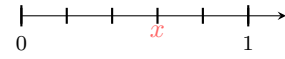
$$x = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Ex 38: Find the value of  $x$



$$x = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$

Ex 39: Find the value of  $x$



$$x = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}$$