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:

 \Box Yes

 \square 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:

 \Box Yes

 \square No

A.2 FINDING FRACTIONS





MCQ 6: Which shapes have $\frac{2}{4}$ of their area shaded? Choose all the correct answers:

















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 25:** State the denominator of the fraction $\frac{5}{6} = 1$



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 35: A circle represents 1. Find the fraction that represents the shaded part: **Ex 26:** State the numerator of the fraction $\frac{0}{3} =$ A.6 WRITING FRACTIONS FROM WORDS **B** ON THE NUMBER LINE **Ex 27:** Write as fraction: **B.1 FINDING FRACTIONS WITH BAR FRACTION** one over four= MODEL **Ex 36:** Find the value of *x* **Ex 28:** Write as fraction: 0 1 three over five =Ex 29: Write as fraction: **Ex 37:** Find the value of xthree quarters =0 **Ex 30:** Write as fraction: six over hundred =**Ex 38:** Find the value of x0 A.7 FINDING FRACTIONS GREATER THAN 1 IN DIAGRAMS Ex 31: A bar represents 1. Find the fraction that represents the shaded part: **Ex 39:** Find the value of xn Ex 32: A bar represents 1. Find the fraction that represents the shaded part: **Ex 40:** Find the value of x

Ex 33: A bar represents 1. Find the fraction that represents the shaded part:



 \mathbf{Ex} 34: A circle represents 1. Find the fraction that represents the shaded part:



Ex 42: Find the value of x

B.2 FINDING FRACTIONS

0

Ex 41: Find the value of x

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1



Ex 43: Find the value of x



Ex 44: Find the value of x



B.3 FINDING FRACTIONS GREATER THAN 1





Ex 46: Find the value of x







Ex 48: Find the value of x







Ex 50: Find the value of x



C EQUIVALENT FRACTIONS

C.1 IDENTIFYING EQUIVALENT FRACTIONS









MCQ 53: Find the equal fraction of $\frac{1}{2} =$



MCQ 54: Find the equal fraction of $\frac{2}{3} =$ Choose the correct answer:

(*<u>+</u>)



 $\Box \ \frac{7}{9} = \blacksquare$

C.2 IDENTIFYING EQUIVALENT FRACTIONS















C.3 WRITING EQUIVALENT FRACTIONS

Ex 59:



Ex 60:



Ex 61:

Ex 62:





Ex 63:



C.4 FINDING THE MISSING NUMERATOR

Ex 64:

Ex 65:



 $\frac{1}{2} = \frac{1}{4}$

Ex 66:

Ex 67:



 $\frac{5}{4} = \frac{12}{12}$

C.5 FINDING THE MISSING DENOMINATOR

Ex 68:

Ex 69:



 $\frac{2}{3} = \frac{4}{3}$

Ex 70:

Ex 71:



 $\frac{2}{5} = \frac{6}{5}$

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D ADDITION AND SUBTRACTION



Ex 72:



Ex 73:







Ex 75:



Ex 76:



D.2 ADDING FRACTIONS WITH COMMON DENOMINATORS

Ex 77:



Ex 78:



Ex 79:

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 $\frac{2}{3} + \frac{2}{3} = \begin{bmatrix} \\ \hline \\ \hline \end{bmatrix}$

Ex 81:

Ex 80:



D.3 SUBTRACTING FRACTIONS WITH COMMON DENOMINATORS

Ex 82:



Ex 83:

Ex 84:

Ex 85:

Ex 86:









D.4 SUBTRACTING FRACTIONS WITH COMMON DENOMINATORS

Ex 87:



Ex 88:



Ex 89:



Ex 90:



Ex 91:

7	2	
6	$-\overline{6} =$	

