FRACTIONS

A DEFINITION

A.1 DETERMINING IF EQUAL PARTS

MCQ 1: Which figures are divided into equal parts?

Choose all the correct answers:

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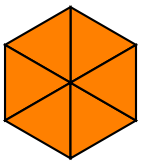
☒ 

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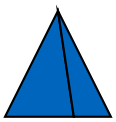
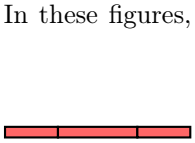
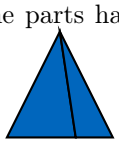
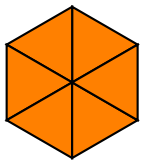
☐ 

Answer:

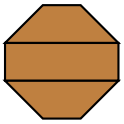
- Figures are divided into equal parts if all of their parts are the same size.
- In these figures, some parts have larger areas than others:

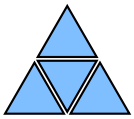
 and 

- These figures are divided into equal parts:  and  .

MCQ 2: Which figures are divided into equal parts?

Choose all the correct answers:

☐ 

☒ 

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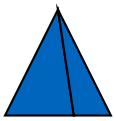
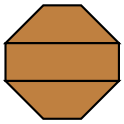
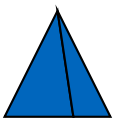
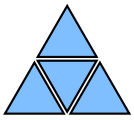
☐ 

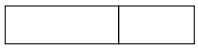
Answer:

- Figures are divided into equal parts if all of their parts are the same size.
- In these figures, some parts have larger areas than others:

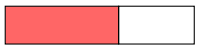
 and 

- These figures are divided into equal parts:  and  .

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

Answer:

- The parts are not equal.
- Since Louis takes the bigger part, he has more than $\frac{1}{2}$ of the cake.
- It is not fair.

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

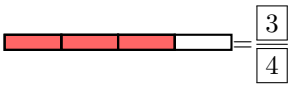
☐ No

Answer:

- The parts are equal.
- Since Hugo chose one of the two equal parts, he has exactly $\frac{1}{2}$ of the cake.
- It is fair.

A.2 FINDING FRACTIONS IN DIAGRAMS

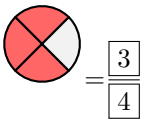
Ex 5: What fraction of the shape is shaded?



Answer:

- 3 of the 4 equal parts are shaded.
- So, $\frac{3}{4}$.

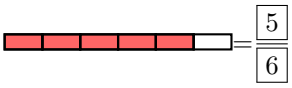
Ex 6: What fraction of the shape is shaded?



Answer:

- 3 of the 4 equal parts are shaded.
- So, $\frac{3}{4}$.

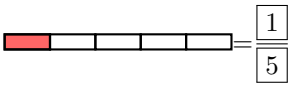
Ex 7: What fraction of the shape is shaded?



Answer:

- 5 of the 6 equal parts are shaded.
- So, $\frac{5}{6}$.

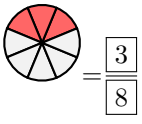
Ex 8: What fraction of the shape is shaded?



Answer:

- 1 of the 5 equal parts is shaded.
- So, $\frac{1}{5}$.

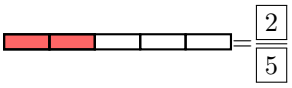
Ex 9: What fraction of the shape is shaded?



Answer:

- 3 of the 8 equal parts are shaded.
- So, $\frac{3}{8}$.

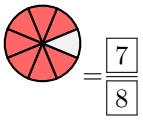
Ex 10: What fraction of the shape is shaded?



Answer:

- 2 of the 5 equal parts are shaded.
- So, $\frac{2}{5}$.

Ex 11: What fraction of the shape is shaded?



Answer:

- 7 of the 8 equal parts are shaded.
- So, $\frac{7}{8}$.

A.3 FINDING FRACTIONS

MCQ 12: Which shapes have $\frac{2}{3}$ of their area shaded?
Choose all the correct answers:

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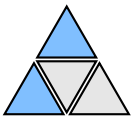
Answer:

- The parts are not equal, so is **not** equal to $\frac{2}{3}$.
- $\frac{2}{3}$ = because 2 of the 3 equal parts are shaded.
- $\frac{2}{3}$ = because 2 of the 3 equal parts are shaded.

MCQ 13: Which shapes have $\frac{2}{4}$ of their area shaded?
Choose all the correct answers:

☒ 

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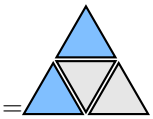
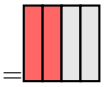
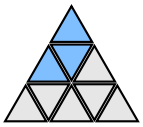
Answer:

- $\frac{2}{4}$ =  as 2 of the 4 equal parts are shaded.
- $\frac{2}{6}$ =  as 2 of the 6 equal parts are shaded.
- $\frac{3}{4}$ =  as 3 of the 4 equal parts are shaded.
- $\frac{2}{4}$ =  as 2 of the 4 equal parts are shaded.

MCQ 14: Which shapes have $\frac{3}{8}$ of their area shaded?

Choose all answers:

☐ 

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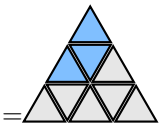
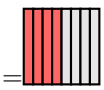
Answer:

- $\frac{3}{9}$ =  as 3 of the 9 equal parts are shaded.
- $\frac{3}{8}$ =  as 3 of the 8 equal parts are shaded.
- $\frac{3}{8}$ =  as 3 of the 8 equal parts are shaded.
- $\frac{4}{8}$ =  as 4 of the 8 equal parts are shaded.

MCQ 15: Which shapes have $\frac{2}{4}$ of their area shaded?

Choose all answers:

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Answer:

- $\frac{2}{4}$ = as 2 of the 4 equal parts are shaded.
- $\frac{2}{4}$ = as 2 of the 4 equal parts are shaded.
- $\frac{2}{4}$ = as 2 of the 4 equal parts are shaded.
- $\frac{3}{4}$ = as 3 of the 4 equal parts are shaded.