RATIO

A RATIO

A.1 EXPRESSING RATIOS IN DIFFERENT FORMS

Ex 1: The ratio of 3 to 2 is $\boxed{3}$: $\boxed{2}$ or $\boxed{\frac{3}{2}}$.

Answer: The ratio of 3 to 2 can be written as 3:2 or $\frac{3}{2}$.

Ex 2: The ratio of 4 to 5 is $\boxed{4}$: $\boxed{5}$ or $\boxed{\frac{4}{5}}$.

Answer: The ratio of 4 to 5 can be written as 4:5 or $\frac{4}{5}$.

Ex 3: The ratio of 7 to 3 is $\boxed{7}$: $\boxed{3}$ or $\boxed{\boxed{3}}$.

Answer: The ratio of 7 to 3 can be written as 7:3 or $\frac{7}{3}$.

Ex 4: The ratio of 6 to 9 is $\boxed{6}$: $\boxed{9}$ or $\boxed{\frac{6}{9}}$.

Answer: The ratio of 6 to 9 can be written as 6:9 or $\frac{6}{9}$.

B PART-PART RATIOS

B.1 FINDING RATIOS IN PART-PART RELATIONSHIPS

Ex 5: What is the ratio of girls to boys?



Answer:

- There are 2 girls.
- There is 1 boy.
- The ratio of girls to boys is 2:1.

Ex 6: What is the ratio of girls to boys?

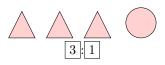


Answer:

- There are 2 girls.
- There are 3 boys.

• The ratio of girls to boys is 2:3.

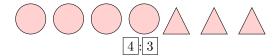
Ex 7: What is the ratio of triangles to circles?



Answer:

- There are 3 triangles.
- There is 1 circle.
- The ratio of triangles to circles is 3:1.

Ex 8: What is the ratio of circles to triangles?



Answer:

- There are 4 circles.
- There are 3 triangles.
- The ratio of circles to triangles is 4:3.

C PART-WHOLE RATIOS

C.1 FINDING RATIOS IN WHOLE-PART RELATIONSHIPS

Ex 9: What is the ratio of girls to kids?



Answer:

- There are 2 girls.
- There are 3 kids.
- The ratio of girls to kids is $\frac{2}{3}$

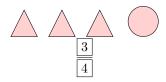
Ex 10: What is the ratio of girls to kids?



Answer:

- There are 2 girls.
- There are 5 kids.
- The ratio of girls to kids is $\frac{2}{5}$.

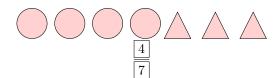
Ex 11: What is the ratio of triangles to shapes?



Answer:

- There are 3 triangles.
- There are 4 shapes.
- The ratio of triangles to shapes is $\frac{3}{4}$.

Ex 12: What is the ratio of circles to shapes?



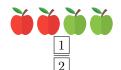
Answer:

- There are 4 circles.
- There are 7 shapes.
- The ratio of circles to shapes is $\frac{4}{7}$.

D EQUIVALENT RATIOS

D.1 SIMPLIFYING RATIOS

Ex 13: What is the ratio of red apples to all apples (write in simplified form)?



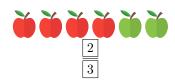
Answer:

- There are 2 red apples.
- There are 4 apples in total.
- The ratio of red apples to all apples is $\frac{2}{4}$.



• The simplified ratio is $\frac{1}{2}$ (half are red).

Ex 14: What is the ratio of red apples to all apples (write in simplified form)?



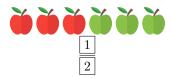
Answer:

- There are 4 red apples.
- There are 6 apples in total.
- The ratio of red apples to all apples is $\frac{4}{6}$.



• The simplified ratio is $\frac{2}{3}$.

Ex 15: What is the ratio of red apples to all apples (write in simplified form)?



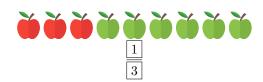
Answer:

- There are 3 red apples.
- There are 6 apples in total.
- The ratio of red apples to all apples is $\frac{3}{6}$.



• The simplified ratio is $\frac{1}{2}$ (half are red).

Ex 16: What is the ratio of red apples to all apples (write in simplified form)?



Answer:

- There are 3 red apples.
- There are 9 apples in total.
- The ratio of red apples to all apples is $\frac{3}{9}$.



• The simplified ratio is $\frac{1}{3}$.

E PART IN WHOLE-PART RELATIONSHIPS

E.1 FINDING **PARTS**

IN WHOLE-PART

RELATIONSHIPS

Ex 17:



 $\frac{1}{2}$ of 4 is $\boxed{2}$.

Answer:



• $\frac{1}{2}$ of 4 is 2.

Ex 18:



 $\frac{2}{3}$ of 6 is $\boxed{4}$.



• $\frac{2}{3}$ of 6 is 4.

Ex 19:



 $\frac{1}{2}$ of 8 is $\boxed{4}$.

Answer:



• $\frac{1}{2}$ of 8 is 4.

Ex 20:



 $\frac{3}{4}$ of 8 is $\boxed{6}$.



• $\frac{3}{4}$ of 8 is 6.