

Distinguish part-to-part from part-to-whole ratios

NAME	DATE	SCORE / 10
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1

A fish tank has 4 red fish and 5 yellow fish. Noah writes the ratio 5:9. What does Noah's ratio compare?

☐ Yellow fish to all the fish

☐ Red fish to yellow fish

☐ Yellow fish to red fish

☐ Red fish to all the fish

2

A bag has 2 red marbles and 5 blue marbles. Write the ratio of blue marbles to red marbles.

3

A bag has 3 red marbles and 6 blue marbles. Match each comparison to its ratio.

A Blue marbles to red marbles

B Red marbles to all the marbles

C Red marbles to blue marbles

D Blue marbles to all the marbles

1 6 : 9

2 6 : 3

3 3 : 6

4 3 : 9

A →

B →

C →

D →

4

A class has 5 boys and 9 girls. Leo writes the ratio 5:14. What does Leo's ratio compare?

☐ Boys to girls

☐ Girls to all the children

☐ Boys to all the children

☐ Girls to boys

5

A class has 7 boys and 8 girls. Write the ratio of girls to all the children.

6 A bag has 2 red marbles and 8 blue marbles. Match each comparison to its ratio.

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|----------|---------------------------------|----------|--------|
| A | Red marbles to all the marbles | 1 | 8 : 10 |
| B | Blue marbles to all the marbles | 2 | 8 : 2 |
| C | Blue marbles to red marbles | 3 | 2 : 8 |
| D | Red marbles to blue marbles | 4 | 2 : 10 |

A → **B** → **C** → **D** →

7 A pet shop has 6 cats and 5 dogs. Noah writes the ratio 5:6. What does Noah's ratio compare?

- ☐ Dogs to all the pets
 ☐ Cats to dogs
 ☐ Cats to all the pets
 ☐ Dogs to cats

8 A pet shop has 5 cats and 4 dogs. Write the ratio of dogs to cats.

9 A pet shop has 3 cats and 4 dogs. Emma writes the ratio 3:4. What does Emma's ratio compare?

- ☐ Cats to dogs
 ☐ Dogs to cats
 ☐ Dogs to all the pets
 ☐ Cats to all the pets

10 A bag has 5 red marbles and 2 blue marbles. Emma writes the ratio 2:5. What does Emma's ratio compare?

- ☐ Blue marbles to all the marbles
 ☐ Red marbles to blue marbles
☐ Blue marbles to red marbles
 ☐ Red marbles to all the marbles

Distinguish part-to-part from part-to-whole ratios

1 Yellow fish to all the fish

3 $A \rightarrow 2, B \rightarrow 4, C \rightarrow 3, D \rightarrow 1$

5 8:15

7 Dogs to cats

9 Cats to dogs

2 5:2

4 Boys to all the children

6 $A \rightarrow 4, B \rightarrow 1, C \rightarrow 2, D \rightarrow 3$

8 4:5

10 Blue marbles to red marbles