

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

NAME	DATE	SCORE / 10
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1 A pet shop has 3 cats and 4 dogs. Cleo writes the ratio 3:4. What does Cleo's ratio compare?

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

2 A class has 7 boys and 9 girls. Write the ratio of boys to all the children.

3 A bag has 6 red marbles and 7 blue marbles. Match each comparison to its ratio.

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|--|-----------------|
| A Red marbles to all the marbles | 1 7 : 6 |
| B Blue marbles to red marbles | 2 6 : 7 |
| C Red marbles to blue marbles | 3 7 : 13 |
| D Blue marbles to all the marbles | 4 6 : 13 |

A → **B** → **C** → **D** →

4 A bag has 8 red marbles and 3 blue marbles. Ana writes the ratio 8:3. What does Ana's ratio compare?

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

5 A pet shop has 9 cats and 5 dogs. Write the ratio of cats to dogs.

6 A bag has 3 red marbles and 2 blue marbles. Match each comparison to its ratio.

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|----------|---------------------------------|----------|-------|
| A | Red marbles to blue marbles | 1 | 2 : 5 |
| B | Blue marbles to red marbles | 2 | 2 : 3 |
| C | Red marbles to all the marbles | 3 | 3 : 2 |
| D | Blue marbles to all the marbles | 4 | 3 : 5 |

A → **B** → **C** → **D** →

7 A fish tank has 5 red fish and 2 yellow fish. Maya writes the ratio 2:5. What does Maya's ratio compare?

- ☐ Red fish to all the fish
 ☐ Yellow fish to red fish
 ☐ Red fish to yellow fish
☐ Yellow fish to all the fish

8 A pet shop has 9 cats and 5 dogs. Write the ratio of cats to all the pets.

9 A class has 7 boys and 2 girls. Emma writes the ratio 2:9. What does Emma's ratio compare?

- ☐ Boys to girls
 ☐ Boys to all the children
 ☐ Girls to all the children
 ☐ Girls to boys

10 A pet shop has 9 cats and 2 dogs. Emma writes the ratio 9:11. What does Emma's ratio compare?

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

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

1 Cats to dogs

2 7:16

3 A → 4, B → 1, C → 2, D → 3

4 Red marbles to blue marbles

5 9:5

6 A → 3, B → 2, C → 4, D → 1

7 Yellow fish to red fish

8 9:14

9 Girls to all the children

10 Cats to all the pets
