

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

NAME	DATE	SCORE / 10
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1

A class has 4 boys and 9 girls. Noah writes the ratio 4:13. What does Noah's ratio compare?

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

2

A bag has 9 red marbles and 8 blue marbles. Write the ratio of red marbles to blue marbles.

3

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

A

Blue marbles to red marbles

1

8 : 10

B

Blue marbles to all the marbles

2

8 : 2

C

Red marbles to blue marbles

3

2 : 8

D

Red marbles to all the marbles

4

2 : 10

A →

B →

C →

D →

4

A pet shop has 5 cats and 3 dogs. Emma writes the ratio 3:5. What does Emma's ratio compare?

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

5

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

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

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|----------|---------------------------------|----------|--------|
| A | Blue marbles to red marbles | 1 | 6 : 14 |
| B | Blue marbles to all the marbles | 2 | 8 : 14 |
| C | Red marbles to all the marbles | 3 | 6 : 8 |
| D | Red marbles to blue marbles | 4 | 8 : 6 |

A → **B** → **C** → **D** →

7 A fish tank has 7 red fish and 4 yellow fish. Ben writes the ratio 4:7. What does Ben's ratio compare?

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

8 A pet shop has 3 cats and 4 dogs. Write the ratio of cats to all the pets.

9 A pet shop has 5 cats and 7 dogs. Leo writes the ratio 5:12. What does Leo's ratio compare?

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

10 A pet shop has 7 cats and 8 dogs. Maya writes the ratio 8:15. What does Maya's ratio compare?

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

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

1 Boys to all the children

2 9:8

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

4 Dogs to cats

5 4:5

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

7 Yellow fish to red fish

8 3:7

9 Cats to all the pets

10 Dogs to all the pets