

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

NAME	DATE	SCORE / 10
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1

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

☐ Red marbles to all the marbles

☐ Blue marbles to all the marbles

☐ Blue marbles to red marbles

☐ Red marbles to blue marbles

2

A pet shop has 9 cats and 7 dogs. Write the ratio of cats to all the pets.

3

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

A Red marbles to blue marbles

1 3 : 6

B Blue marbles to all the marbles

2 6 : 9

C Blue marbles to red marbles

3 3 : 9

D Red marbles to all the marbles

4 6 : 3

A →

B →

C →

D →

4

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

☐ Girls to all the children

☐ Boys to girls

☐ Girls to boys

☐ Boys to all the children

5

A fish tank has 4 red fish and 7 yellow fish. Write the ratio of yellow fish to all the fish.

6 A bag has 7 red marbles and 5 blue marbles. Match each comparison to its ratio.

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|----------|---------------------------------|----------|--------|
| A | Red marbles to blue marbles | 1 | 7 : 5 |
| B | Red marbles to all the marbles | 2 | 5 : 12 |
| C | Blue marbles to all the marbles | 3 | 7 : 12 |
| D | Blue marbles to red marbles | 4 | 5 : 7 |

A → **B** → **C** → **D** →

7 A bag has 4 red marbles and 5 blue marbles. Ben writes the ratio 5:9. What does Ben's ratio compare?

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

8 A class has 3 boys and 2 girls. Write the ratio of boys to all the children.

9 A pet shop has 7 cats and 2 dogs. Emma writes the ratio 2:9. What does Emma's ratio compare?

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

10 A pet shop has 7 cats and 6 dogs. Ana writes the ratio 7:13. What does Ana's ratio compare?

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

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

1 Red marbles to blue marbles

2 9:16

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

4 Girls to boys

5 7:11

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

7 Blue marbles to all the marbles

8 3:5

9 Dogs to all the pets

10 Cats to all the pets
