

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 7 blue marbles. Ana writes the ratio 7:4. What does Ana's ratio compare?
- ☐ Red marbles to blue marbles ☐ Red marbles to all the marbles
☐ Blue marbles to all the marbles ☐ Blue marbles to red marbles

- 2** A class has 7 boys and 4 girls. Write the ratio of boys to girls.

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

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|--|-----------------|
| A Blue marbles to all the marbles | 1 3 : 7 |
| B Red marbles to blue marbles | 2 7 : 3 |
| C Blue marbles to red marbles | 3 7 : 10 |
| D Red marbles to all the marbles | 4 3 : 10 |

A → **B** → **C** → **D** →

- 4** A fish tank has 5 red fish and 6 yellow fish. Ana writes the ratio 5:6. What does Ana's ratio compare?
- ☐ Yellow fish to red fish ☐ Yellow fish to all the fish ☐ Red fish to yellow fish
☐ Red fish to all the fish

- 5** A fish tank has 2 red fish and 5 yellow fish. Write the ratio of red fish to all the fish.

6 A bag has 4 red marbles and 9 blue marbles. Match each comparison to its ratio.

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| A | Blue marbles to red marbles | 1 | 9 : 4 |
| B | Red marbles to blue marbles | 2 | 9 : 13 |
| C | Red marbles to all the marbles | 3 | 4 : 13 |
| D | Blue marbles to all the marbles | 4 | 4 : 9 |

A → **B** → **C** → **D** →

7 A class has 7 boys and 3 girls. Leo writes the ratio 7:10. What does Leo's ratio compare?

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

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

9 A fish tank has 3 red fish and 2 yellow fish. Cleo writes the ratio 2:5. What does Cleo's ratio compare?

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

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

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

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

1 Blue marbles to red marbles

2 7:4

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

4 Red fish to yellow fish

5 2:7

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

7 Boys to all the children

8 8:17

9 Yellow fish to all the fish

10 Red marbles to blue marbles
