Homework/Extension
Step 3: Introducing the Ratio Symbol

National Curriculum Objectives:

Mathematics Year 6: (6R1) Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Complete the ratio statements by comparing 2 sets of objects in a linear arrangement.
Expected Complete the ratio statements by comparing 3 sets of objects grouped together, with some simplifying of ratio statements required.
Greater Depth Complete the ratio statements by comparing 3 sets of objects arranged randomly out of sequence, with some simplifying of ratio statements required.

Questions 2, 5 and 8 (Varied Fluency)
Developing Match the fraction to the correct pictorial representation and ratio. Includes comparing 2 sets of objects in a linear arrangement.
Expected Match the fraction to the correct pictorial representation and ratio. Includes comparing 2 sets of objects in a linear arrangement with some simplifying of ratio statements required.
Greater Depth Match the fraction to the correct pictorial representation and ratio. Includes comparing 3 sets of objects arranged randomly out of sequence, with some simplifying of ratio statements required.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Write ratio statements to compare 2 sets of objects in a patterned sequence.
Expected Write ratio statements to compare 3 sets of objects grouped together, with some simplifying of ratio statements required.
Greater Depth Write ratio statements to compare 3 sets of objects arranged randomly out of sequence, with some simplifying of ratio statements required.

More Year 6 Ratio resources.

Did you like this resource? Don't forget to review it on our website.

Introducing the Ratio Symbol

1. Look at the set of objects below and complete the statements.

A. For every _____ squares, there are _____ circles.

B. The ratio of squares to circles is _____ .

C. For every _____ stars, there are _____ triangles.

D. The ratio of stars to triangles is _____ .

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2. Match each image with the fraction of squares it contains, and the ratio of the two shapes represented.

A. $\frac{2}{9}$

2:7

B. $\frac{1}{5}$

1:4

C. $\frac{3}{7}$

3:4

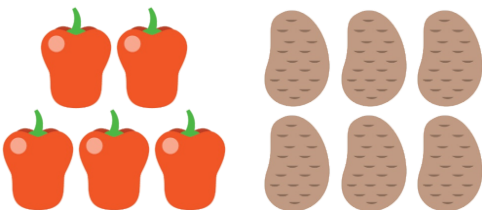**3. Use the digit cards to write different ratios which match the given picture. Write the statements to go with them.**
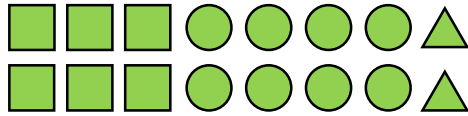
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

The ratio of _____ to _____ is

[ ] : [ ]

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Homework/Extension – Introducing the Ratio Symbol – Year 6 Developing
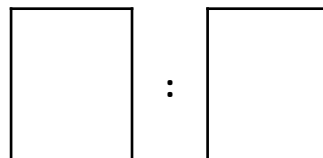
Introducing the Ratio Symbol

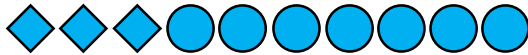**4. Look at the set of objects below and complete the statements, using the ratio in its simplest form.**

A. For every _____ squares, there are _____ circles and _____ triangles.

B. The ratio of squares to circles is _____ .

C. The ratio of circles to triangles is _____ .

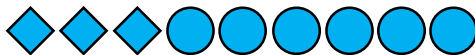D. The ratio of squares to circles to triangles is _____ .

⭐E

5. Match each image with the fraction of squares it contains, and the ratio of the two shapes represented.
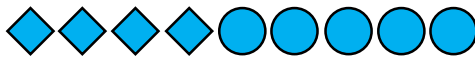
A. $\dfrac{3}{9}$ 1:2

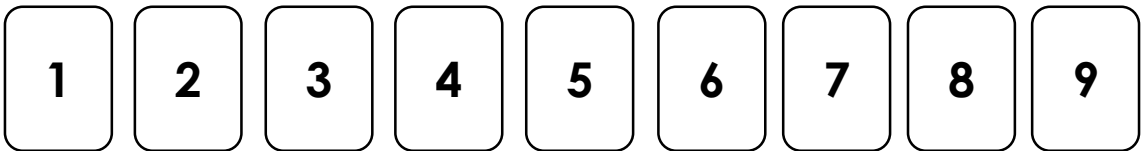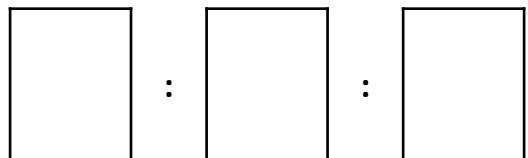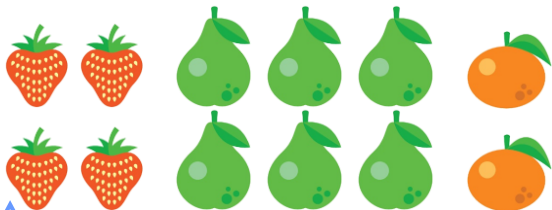B. $\dfrac{3}{10}$ 4:5

C. $\dfrac{4}{9}$ 3:7

⭐E

6. Use the digit cards to write different ratios which match the given picture. Write the statements to go with them.

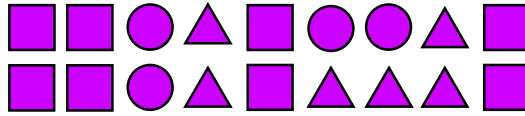| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

The ratio of _____ to _____ to _____ is

[ ] : [ ] : [ ]

⭐E

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Homework/Extension – Introducing the Ratio Symbol – Year 6 Expected

Introducing the Ratio Symbol

7. Look at the set of objects below and complete the statements, using the ratio in its simplest form.

A. For every _____squares, there are _____circles and _____triangles.

B. The ratio of squares to triangles is _____.

C. The ratio of circles to squares is _____.

D. The ratio of squares to circles to triangles is _____.

8. Match each image with the fraction of squares it contains, and the ratio of the three shapes represented.
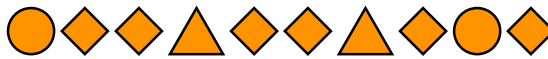
A. $\frac{2}{10}$ 5:2:3

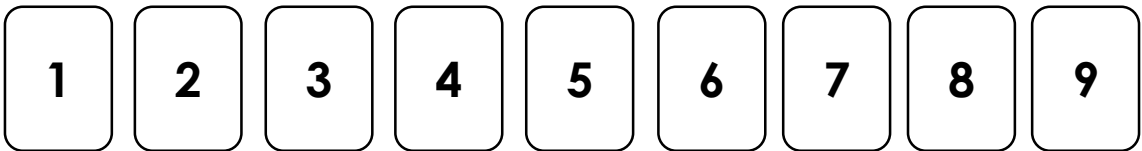B. $\frac{2}{12}$ 1:2:3
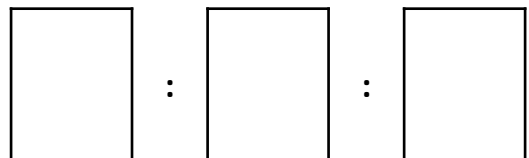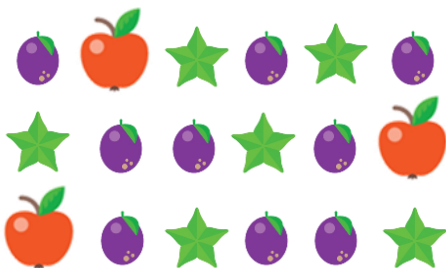
C. $\frac{1}{2}$ 1:1:3

9. Use the digit cards to write different ratios which match the given picture. Write the statements to go with them.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

The ratio of _____ to _____ to _____ is

☐ : ☐ : ☐

Developing

1. A. For every **2** squares, there are **5** circles; B. 2:5;

C. For every **2** stars, there are **3** triangles; D. 2:3

2. A = ■■▲▲▲▲▲▲▲ = 2:7

B = ■▲▲▲▲ = 1:4

C = ■■■▲▲▲▲ = 3:4

3. The ratio of peppers to potatoes is 5:6.

The ratio of potatoes to peppers is 6:5.

Expected

4. A. For every **3** squares, there are **4** circles and **1** triangle; B. 3:4; C. 4:1; D. 3:4:1

5. A = ◆◆◆●●●●● = 1:2

B = ◆◆◆●●●●●● = 3:7

C = ◆◆◆◆●●●●● = 4:5

6. Various answers, for example:

The ratio of strawberries to pears to oranges is 2:3:1.

Greater Depth

7. A. For every **4** squares, there are **2** circles and **3** triangles; B. 4:3; C. 1:2; D. 4:2:3

8. A = ●◆◆▲◆▲◆●◆ = 1:1:3

B = ◆▲●●▲▲●●●◆▲ = 1:2:3

C = ▲▲◆●●▲●▲▲◆ = 5:2:3

9. Various Answers, for example:

The ratio of apples to star fruit to plums is 1:2:3.