

Fractions: Starters

Starter 1 Solutions

1. Equal parts: B and C
2. $\frac{1}{4}$
3. Rectangle split into 5 equal parts with 3 shaded
4. $\frac{3}{5}$
5. $\frac{3}{4}$
- 6.

$$\frac{1}{100}, \frac{1}{10}, \frac{1}{1}, \frac{10}{1}, \frac{100}{1}$$

Starter 2 Solutions

1. $\frac{1}{2}$, $\frac{2}{4}$, $\frac{3}{6}$
2. Yes
3. $\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$
4. 6 out of 9 parts shaded
5. 6
6. 2
7. Equivalent fractions: $\frac{1}{2}$, $\frac{4}{8}$, $\frac{3}{6}$

Starter 3 Solutions

1. $\frac{1}{2}$

2. $\frac{4}{5}$

3.

$$\frac{3}{4} = \frac{6}{8}, \quad \frac{5}{8}$$

So $\frac{3}{4}$ is larger

4.

$$\frac{1}{6}, \quad \frac{1}{3}, \quad \frac{1}{2}$$

5. Lee ate more

6. Equal (=)

Starter 4 Solutions

1. $\frac{7}{10}$

2. 12 students

3.

$$\frac{1}{2} = 12 \text{ cm}, \quad \frac{1}{3} = 8 \text{ cm}$$

4.

$$\frac{3}{4} \text{ hour} = 45 \text{ min}, \quad \frac{2}{3} \text{ hour} = 40 \text{ min}$$

So $\frac{3}{4}$ hour is longer

5. Spend \$12, \$18 left

6. 3 fills

Starter 5 Solutions

1. 3

2. $\frac{2}{3}$, $\frac{4}{6}$, $\frac{6}{9}$ (equivalent)

3. 12

4.

$$1\frac{2}{3} = \frac{5}{3}, \quad 2\frac{1}{2} = \frac{5}{2}$$

5. 8

6. $\frac{9}{21}$, $\frac{6}{14}$, $\frac{12}{28}$

7. examples:

$$\frac{8}{18}, \frac{12}{27}, \frac{16}{36}$$

8. =

9.

$$\frac{48}{18} = \frac{8}{3} = 2\frac{2}{3}$$

Starter 6 Solutions

1. 12

2. $\frac{3}{4}$, $\frac{6}{8}$, $\frac{9}{12}$

3. 12

4.

$$1\frac{3}{4} = \frac{7}{4}, \quad 2\frac{2}{3} = \frac{8}{3}$$

5.

$$\frac{42}{56} = \frac{3}{4}$$

6. $\frac{10}{18}$, $\frac{15}{27}$, $\frac{25}{45}$

7. examples:

$$\frac{14}{24}, \frac{21}{36}, \frac{28}{48}$$

8.

$$\frac{2}{8}, \frac{5}{12}, \frac{4}{6}$$

9.

$$\frac{9}{14} = \frac{18}{28}$$

so <

Starter 7 Solutions

1. $\frac{3}{4}, \frac{3}{5}, \frac{3}{8}$

2. $\frac{3}{4}$

3. Larger denominator \rightarrow
smaller pieces \rightarrow smaller
fraction

4. $>$

5.

$$\frac{18}{24} = \frac{3}{4}$$

6.

$$\frac{27}{36} = \frac{3}{4}$$

7.

$$\frac{11}{4} = 2\frac{3}{4}, \quad \frac{9}{2} = 4\frac{1}{2}$$

8.

$$2\frac{3}{5} = \frac{13}{5}, \quad 1\frac{7}{8} = \frac{15}{8}$$

9. $>$

Starter 8 Solutions

1. $\frac{7}{4}$

2. $1\frac{3}{4}$

3. points at 1.25 and 2.75

4.

$$\frac{13}{5} = 2\frac{3}{5}$$

5.

$$3\frac{2}{3} = \frac{11}{3}$$

6.

$$\frac{16}{40} = \frac{2}{5}$$

7. $>$

8.

$$\frac{6}{5}, 1\frac{1}{2}, \frac{7}{4}$$

Starter 9 Solutions

1. $\frac{5}{6}, \frac{5}{8}$

2. $>$

3. examples:

$$\frac{4}{10}, \frac{6}{15}, \frac{8}{20}$$

4.

$$\frac{54}{72} = \frac{3}{4}$$

5.

$$\frac{17}{6} = 2\frac{5}{6}, \quad \frac{22}{9} = 2\frac{4}{9}$$

6.

$$4\frac{1}{3} = \frac{13}{3}, \quad 2\frac{5}{6} = \frac{17}{6}$$

7.

$$\frac{111}{1234}, \frac{123}{1234}, \frac{321}{1234}$$

8.

$$2\frac{2}{5}$$