Match Scale Copies

● Check Understanding

This is not possible. Possible explanation: The scale factor of the widths is $\frac{20}{5}$ or 4. The scale factor of the lengths is $\frac{100}{20}$ or 5. Because the scale factors for all corresponding sides are not equal, it is not a scale copy.

ACTIVITY ANSWERS

Original Figure A:

New Figure 2: scale factor 0.5 or $\frac{1}{2}$

New Figure 3: scale factor 1.5 or $1\frac{1}{2}$

Original Figure B:

New Figure 4: scale factor 2

New Figure 5: scale factor 0.5 or $\frac{1}{2}$

Original Figure C:

New Figure 7: scale factor $\frac{1}{3}$

New Figure 9: scale factor 2

For New Figures 1, 6, and 8, students should show that the corresponding sides of the original and new figures do not have the same scale factor.

●● Check Understanding

This is not possible. Possible explanation: The scale factor of the widths is $\frac{15}{12}$ or $1\frac{1}{4}$. The scale factor of the lengths is $\frac{20}{15}$ or $1\frac{1}{3}$. Because the scale factors for all corresponding sides are not equal, it is not a scale copy.

ACTIVITY ANSWERS

Original Figure A:

New Figure 1: scale factor 2

New Figure 3: scale factor 1.5 or $1\frac{1}{2}$

New Figure 5: scale factor 3

Original Figure B:

New Figure 8: scale factor $1\frac{1}{3}$

New Figure 9: scale factor $\frac{1}{3}$

New Figure 10: scale factor 0.5 or $\frac{1}{2}$

Original Figure C:

New Figure 11: scale factor 0.5 or $\frac{1}{2}$

New Figure 13: scale factor 4

New Figure 14: scale factor 2

For New Figures 2, 4, 6, 7, 12, and 15, students should show that the corresponding sides of the original and new figures do not have the same scale factor.

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Match Scale Copies *continued*

Check Understanding

This is not possible. Possible explanation: The scale factor of the widths is $\frac{15}{12}$ or $1\frac{1}{4}$. The scale factor of the lengths is $\frac{18}{15}$ or $1\frac{1}{5}$. Because the scale factors for all corresponding sides are not equal, it is not a scale copy.

ACTIVITY ANSWERS

Original Figure A:

New Figure 1: scale factor 1.25 or $1\frac{1}{4}$

New Figure 3: scale factor 0.75 or $\frac{3}{4}$

New Figure 5: scale factor 1.5 or $1\frac{1}{2}$

Original Figure B:

New Figure 8: scale factor 2

New Figure 9: scale factor 1.5 or $1\frac{1}{2}$

New Figure 10: scale factor 0.5 or $\frac{1}{2}$

Original Figure C:

New Figure 11: scale factor 2

New Figure 13: scale factor 3

New Figure 14: scale factor 0.5 or $\frac{1}{2}$

For New Figures 2, 4, 6, 7, 12, and 15, students should show that the corresponding sides of the original and new figures do not have the same scale factor.

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Recipe Scramble

● Check Understanding

70 pages

RECORDING SHEET

Each row of the table should have three tiles in the following order:

Cereal: $2\frac{1}{2}$ c (B); 5 c (D); 15 c (A)

Pretzel Sticks: 1 c (U or P); 2 c (N); 6 c (F)

Peanuts: $\frac{1}{2}$ c (E); 1 c (U or P); 3 c (F)

Butter: $\frac{1}{4}$ c (M); $\frac{1}{2}$ c (L); $1\frac{1}{2}$ c (T)

Parmesan Cheese: 1 tbsp (S); 2 tbsp (N); 6 tbsp (A)

Salt: $\frac{1}{4}$ tsp (R); $\frac{1}{2}$ tsp (D); $1\frac{1}{2}$ tsp (I)

The remaining nine tiles spell CELEBRATE.

●● Check Understanding

64 pages

RECORDING SHEET

Each row of the table should have three tiles in the following order:

Cereal: 4 c (B or F); $5\frac{1}{3}$ c (D); $10\frac{2}{3}$ c (A)

Pretzel Sticks: $1\frac{1}{2}$ c (U); 2 c (N); 4 c (B or F)

Peanuts: $\frac{1}{2}$ c (E); $\frac{2}{3}$ c (P); $1\frac{1}{3}$ c (F)

Butter: $\frac{1}{8}$ c (M); $\frac{1}{6}$ c (L); $\frac{1}{3}$ c (T)

Parmesan Cheese: 1 tbsp (S); $1\frac{1}{3}$ tbsp (N); $2\frac{2}{3}$ tbsp (A)

Salt: $\frac{1}{4}$ tsp (R); $\frac{1}{3}$ tsp (D); $\frac{2}{3}$ tsp (I)

The remaining nine tiles spell CELEBRATE.

●●● Check Understanding

105 pages

RECORDING SHEET

Each row of the table should have three tiles in the following order:

Cereal: $5\frac{1}{3}$ (D); $13\frac{1}{3}$ (A); $18\frac{2}{3}$ (B)

Pretzel Sticks: 2 (R); 5 (E); 7 (U)

Peanuts: $\frac{2}{3}$ (P); $1\frac{2}{3}$ (F); $2\frac{1}{3}$ (F)

Butter: $\frac{1}{6}$ (L); $\frac{5}{12}$ (D); $\frac{7}{12}$ (M)

Parmesan Cheese: $1\frac{1}{3}$ (N); $3\frac{1}{3}$ (A); $4\frac{2}{3}$ (S)

Salt: $\frac{1}{3}$ (T); $\frac{5}{6}$ (I); $1\frac{1}{6}$ (N)

The remaining nine tiles spell CELEBRATE.

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Use Markdowns

● Check Understanding

$42; Possible work:

Markdown: 30% of 60 = (0.7)(60) = 42

Total cost: $42

RECORDING SHEET

Check that students correctly apply each markdown to each price and record the correct discounted prices.

●● Check Understanding

$40.43; Possible work:

Markdown: 30% of 55 = (0.7)(55) = 38.50

Tax: 105% of 38.5 = (1.05)(38.5) = 40.425

Total cost: $40.43

RECORDING SHEET

Check that students correctly apply each markdown and tax to each price and record the correct total costs.

●●● Check Understanding

$39.18; Possible work:

Markdown: 33% of 55.70 = (0.67)(55.70) = 37.319

Tax: 105% of 37.319 = (1.05)(37.319) = 39.18495

Total cost: $39.18

RECORDING SHEET

Check that students correctly apply each markdown and tax to each price and record the correct total costs.

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