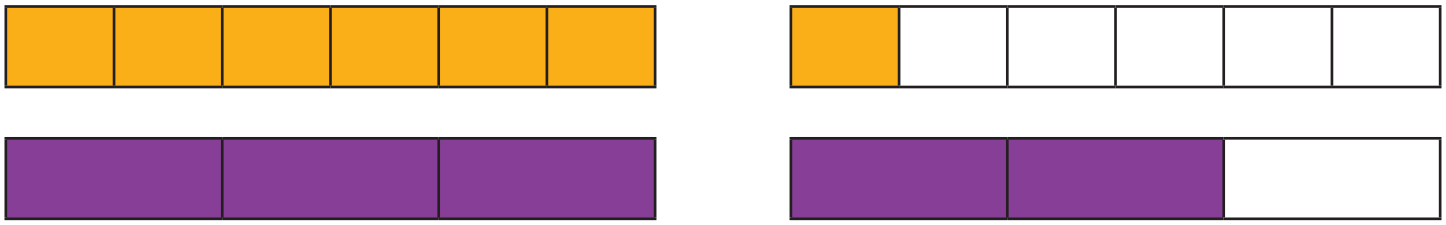
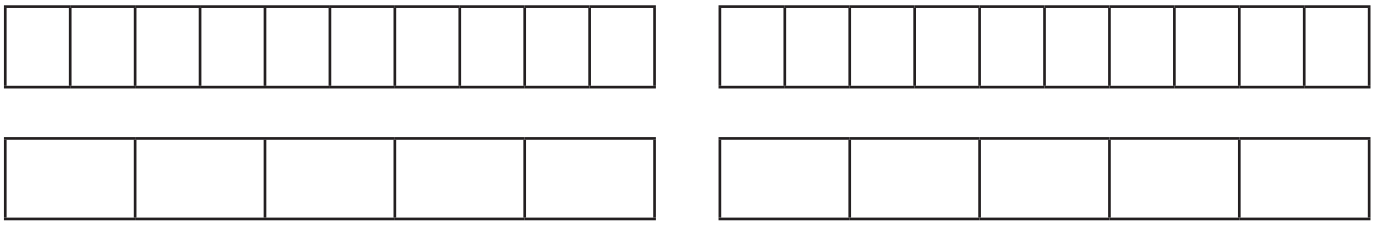
Compare and Order Fractions More than 1

Use bar models to compare $\frac{7}{6}$ and $\frac{5}{3}$.



$\frac{5}{3}$ > $\frac{7}{6}$

1. Compare the following fractions $\frac{11}{10}$ and $\frac{8}{5}$.



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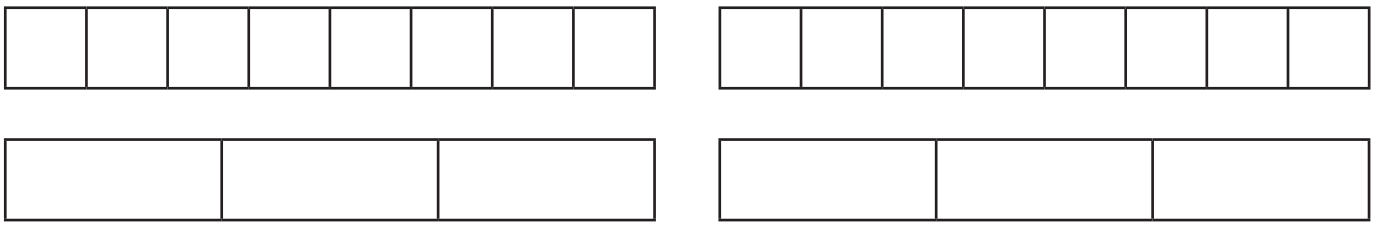
2. Compare the following fractions $\frac{9}{8}$ and $\frac{6}{3}$.



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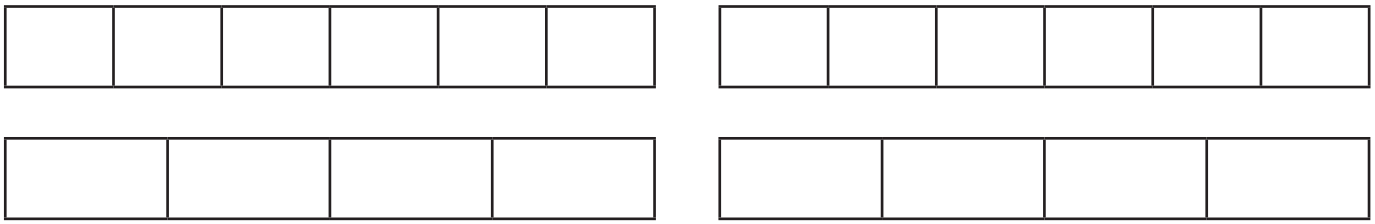
3. Compare the following fractions $\frac{10}{6}$ and $\frac{7}{4}$.



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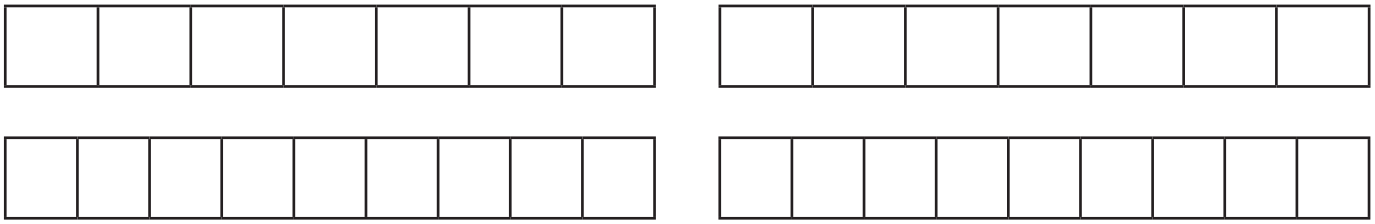
4. Compare the following fractions $\frac{12}{7}$ and $\frac{12}{9}$.



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5. Can you predict which fraction will be the greatest, $\frac{4}{3}$ or $\frac{7}{6}$? Explain how you know. You may wish to draw a bar model to help you explain.

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6. Can you predict which fraction will be the greatest, $\frac{12}{10}$ or $\frac{7}{5}$? Explain how you know. You may wish to draw a bar model to help you explain.

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7. Tarjinder looks at the fractions $2\frac{4}{15}$ and $2\frac{3}{5}$ He says "$2\frac{3}{5}$ is the smallest fraction because the numerator is smaller." Is he correct? Explain your thinking. You may wish to draw a model to support your thinking.

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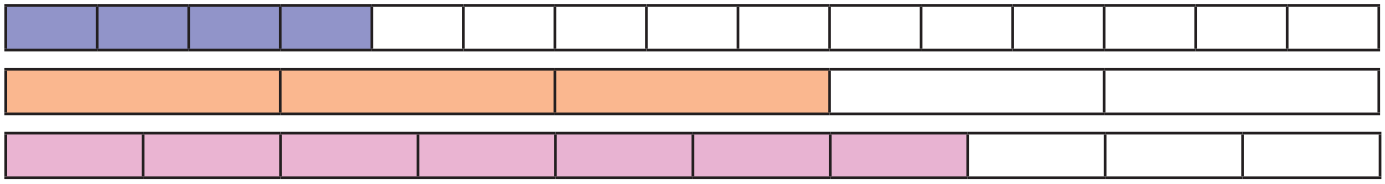
8. Lily writes the improper fraction for each of Tarjinder's visual representations. She also has the fraction $2\frac{7}{10}$ and orders all fractions from smallest to greatest. Is she correct? Explain your thinking.



$2\frac{7}{10} > 2\frac{3}{5} > 2\frac{4}{15}$

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9. Jack has $\frac{13}{5}$ as a fraction and compares it to Lucy's fraction of $\frac{10}{3}$. Who has the greater fraction? Explain your thinking. You may wish to draw a model to support your thinking.

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10. Emma has $\frac{15}{8}$ as a fraction and compares it to Ahmad's fraction of $\frac{9}{7}$. Who has the smallest fraction? Explain your thinking. You may wish to draw a model to support your thinking.

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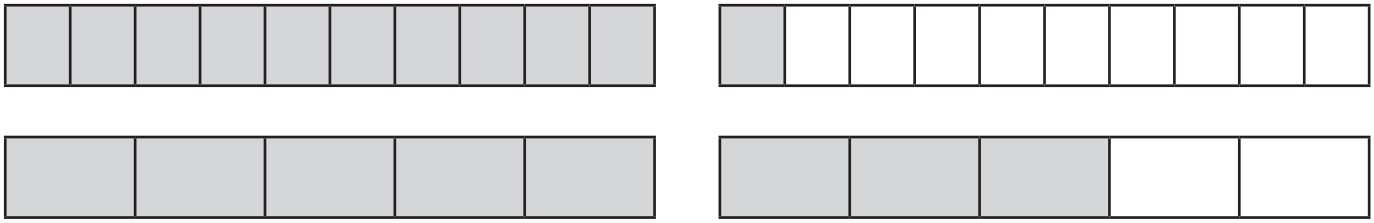
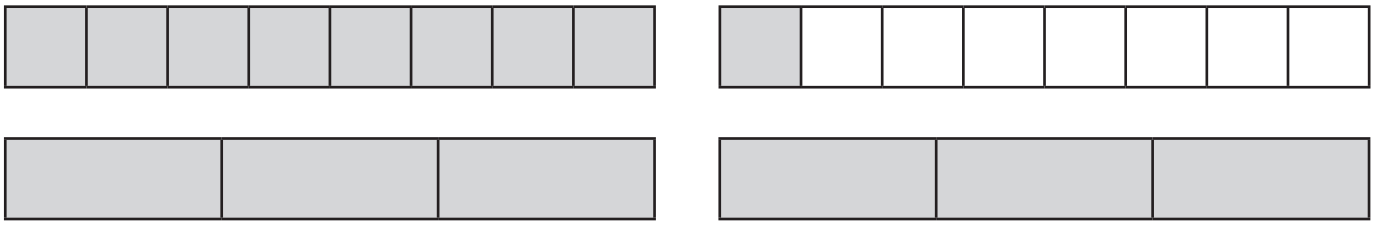
Compare and Order Fractions More than 1 **Answers**

1. Compare the following fractions $\frac{11}{10}$ and $\frac{8}{5}$.



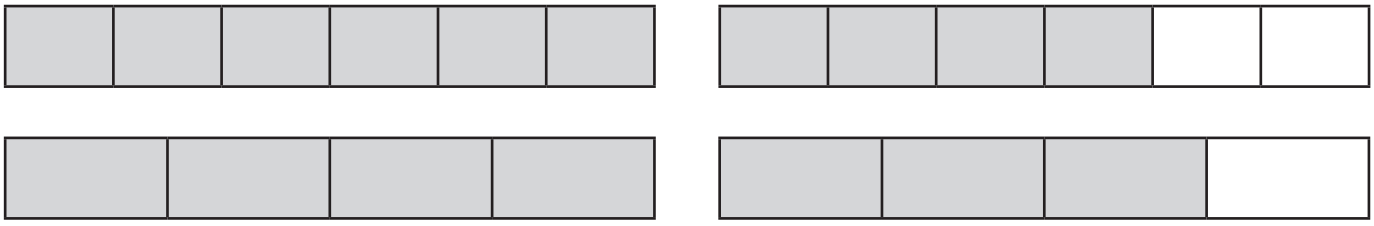
$\frac{8}{5}$ > $\frac{11}{10}$

2. Compare the following fractions $\frac{9}{8}$ and $\frac{6}{3}$.



$\frac{6}{3}$ > $\frac{9}{8}$

3. Compare the following fractions $\frac{10}{6}$ and $\frac{7}{4}$.



$\frac{7}{4}$ > $\frac{10}{6}$

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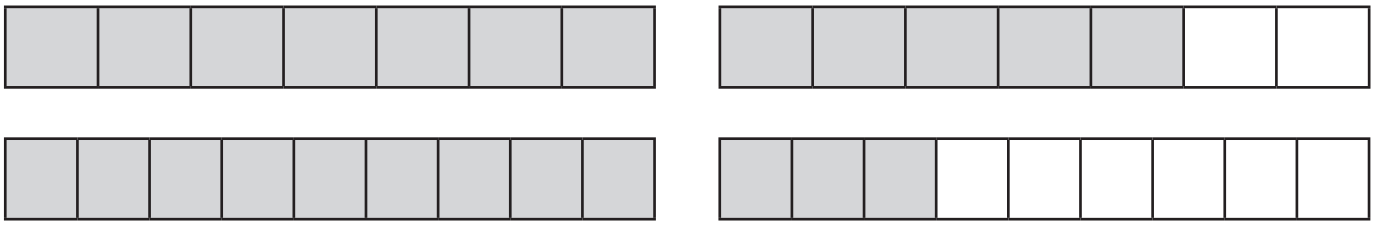
Compare and Order Fractions More than 1 **Answers**

4. Compare the following fractions $\frac{12}{7}$ and $\frac{12}{9}$.



$\frac{12}{7}$ > $\frac{12}{9}$

5. Can you predict which fraction will be the greatest, $\frac{4}{3}$ or $\frac{7}{6}$? Explain how you know. You may wish to draw a bar model to help you explain.

$\frac{4}{3}$ > $\frac{7}{6}$

You can predict by imagining the two denominators being split into a bar model. Both numerators are one bigger than their denominators; therefore, we know we will have one full bar and one extra section of the next bar shaded in. The bar model that is split into three will cover a larger proportion of the bar as it is a smaller denominator; hence the fraction is greater.

6. Can you predict which fraction will be the greatest, $\frac{12}{10}$ or $\frac{7}{5}$? Explain how you know. You may wish to draw a bar model to help you explain.

$\frac{7}{5}$ > $\frac{12}{10}$

You can predict by imagining the two denominators being split into a bar model. Both numerators are bigger than their denominators; therefore, we know we will have one full bar and extra sections of the next bar shaded in. The bar model that is split into ten will cover a smaller proportion of the bar as it is a larger denominator; hence the fraction is smaller.

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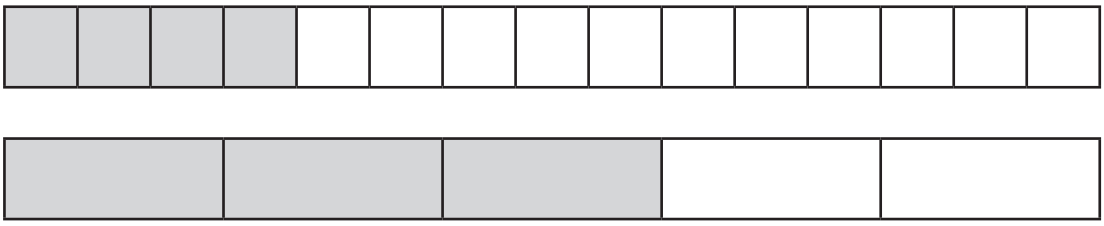
Compare and Order Fractions More than 1 **Answers**

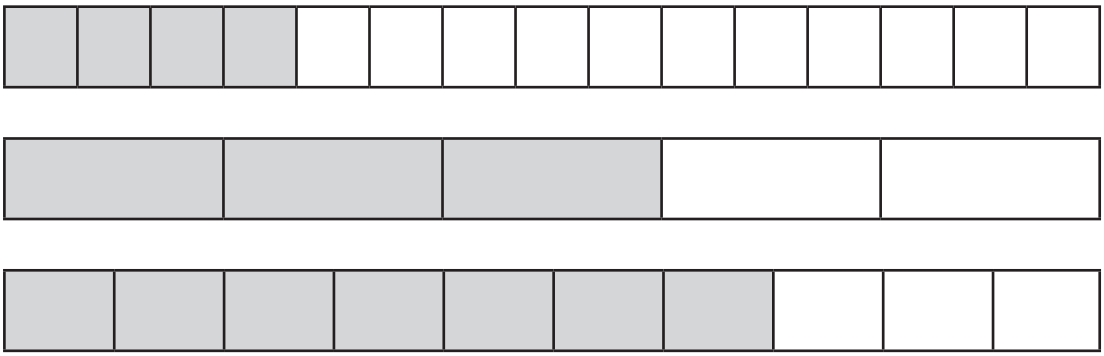
7. Tarjinder looks at the fractions $2\frac{4}{15}$ and $2\frac{3}{5}$ He says "$2\frac{3}{5}$ is the smallest fraction because the numerator is smaller." Is he correct? Explain your thinking. You may wish to draw a model to support your thinking.



$\frac{3}{5}$ > $\frac{4}{15}$

Tarjinder is incorrect as $2\frac{3}{5}$ is greater. We can compare the fractions $\frac{4}{15}$ and $\frac{3}{5}$ as both have a whole number of 2. See diagram for comparison of $\frac{4}{15}$ and $\frac{3}{5}$.

8. Lily writes the improper fraction for each of Tarjinder's visual representations. She also has the fraction $2\frac{7}{10}$ and orders all three fractions from smallest to greatest. Is she correct? Explain your thinking.

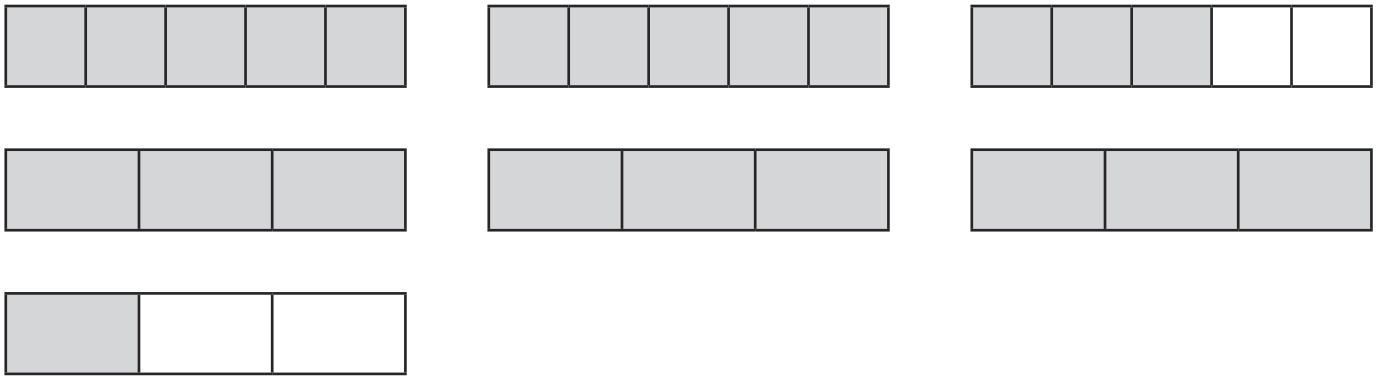


$2\frac{7}{10}$ > $2\frac{3}{5}$ > $2\frac{4}{15}$

Lily is correct as $2\frac{7}{10}$ is greater than $2\frac{3}{5}$ and $2\frac{3}{5}$ is greater than $2\frac{4}{15}$. We can compare the fractions $\frac{4}{15}$, $\frac{3}{5}$ and $\frac{7}{10}$ as all three have a whole number of 2. See diagram for comparison of $\frac{4}{15}$, $\frac{3}{5}$ and $\frac{7}{10}$.

Compare and Order Fractions More than 1 **Answers**

9. Jack has $\frac{13}{5}$ as a fraction and compares it to Lucy's fraction of $\frac{10}{3}$. Who has the greater fraction? Explain your thinking. You may wish to draw a model to support your thinking.

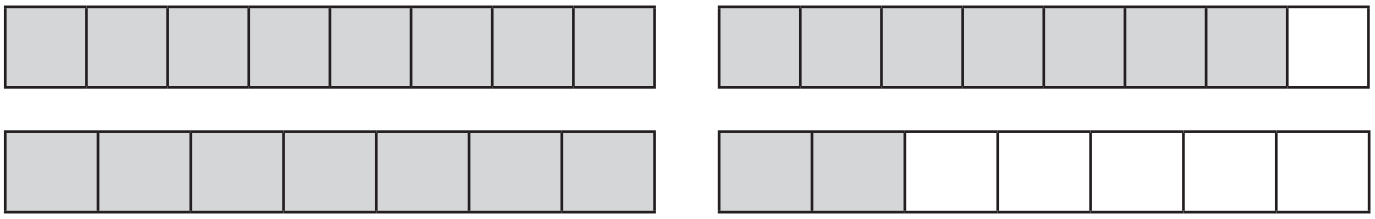


$\frac{10}{3} > \frac{13}{5}$

Lucy has the greater fraction.

You can predict by thinking 5 would divide into 13 twice with 3 remaining and 3 would divide into 10 three times with 1 remaining and 3 is clearly greater than 2 regardless of the remainder as shown by the diagram.

10. Emma has $\frac{15}{8}$ as a fraction and compares it to Ahmad's fraction of $\frac{9}{7}$. Who has the smallest fraction? Explain your thinking. You may wish to draw a model to support your thinking.



$\frac{15}{8} > \frac{9}{7}$

Ahmad has the smaller fraction.

You can predict by thinking $\frac{15}{8}$ is just $\frac{1}{8}$ less than 2 and $\frac{9}{7}$ is $\frac{5}{7}$ away from 2. $\frac{9}{7}$ is the smaller fraction as shown by the diagram.

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