1) $\frac{5}{8}$ $\boxed{>}$ $\frac{4}{7}$　　$\frac{7}{12}$ $\boxed{>}$ $\frac{3}{7}$　　$1\frac{3}{4}$ $\boxed{<}$ $1\frac{8}{9}$　　$1\frac{3}{5}$ $\boxed{<}$ $1\frac{2}{3}$

2) smallest　$\frac{5}{6}$　$\frac{13}{15}$　$\frac{9}{10}$　biggest

---

1) $\frac{32}{56}$ simplifies to $\frac{4}{7}$ but $\frac{20}{28}$ simplifies to $\frac{5}{7}$ so $\frac{32}{56}$ is not greater than $\frac{20}{28}$. These two fractions need to swap places.

2) Disagree. Piece A had $\frac{2}{5}$ cut off and piece B had $\frac{4}{11}$ cut off. This is equivalent to $\frac{22}{55}$ and $\frac{20}{55}$ so more wood was cut off Piece A.

---

1) Multiple answers possible, for example $\frac{2}{24} < \frac{1}{6} < \frac{3}{9} < \frac{20}{40}$.

2) **a)** Multiple answers possible, for example $\frac{15}{6} > \frac{20}{9} > \frac{30}{18} > \frac{24}{15}$, where the denominators are changed to 90ths ($\frac{225}{90} > \frac{200}{90} > \frac{150}{90} > \frac{144}{90}$).

b) Multiple answers possible, for example $\frac{6}{15} < \frac{3}{6} < \frac{15}{24} < \frac{15}{20}$, where the denominators are changed to 120ths ($\frac{48}{120} < \frac{60}{120} < \frac{75}{120} < \frac{90}{120}$).

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Compare and Order Fractions

I can compare and order fractions where the denominators are not multiples of the same number.

1. Put these fractions in order of size, starting with the smallest.

$$\frac{3}{4} \qquad \frac{1}{6} \qquad \frac{7}{12} \qquad \frac{2}{3}$$

2. In each box, circle the fraction that is greater.

$1\frac{3}{5}$	$1\frac{2}{3}$

$1\frac{1}{4}$	$1\frac{2}{5}$

3. Use any three of these fractions to complete the statement.

$$\frac{2}{3} \qquad \frac{5}{9} \qquad \frac{7}{12} \qquad \frac{9}{15}$$

	>		>	

4. Circle all the fractions that are greater than $\frac{1}{4}$ but less than $\frac{1}{2}$.

$\frac{3}{7}$	$\frac{2}{3}$	$\frac{5}{8}$	$\frac{4}{9}$	$\frac{2}{5}$

Compare and Order Fractions **Answers**

1. Put these fractions in order of size, starting with the smallest.

$$\frac{3}{4} \qquad \frac{1}{6} \qquad \frac{7}{12} \qquad \frac{2}{3}$$

$\frac{1}{6}$	$\frac{7}{12}$	$\frac{2}{3}$	$\frac{3}{4}$

2. In each box, circle the fraction that is greater.

$1\frac{3}{5}$	$\boxed{1\frac{2}{3}}$		$1\frac{1}{4}$	$\boxed{1\frac{2}{5}}$

3. Use any three of these fractions to complete the statement.

   There are four possible answers:
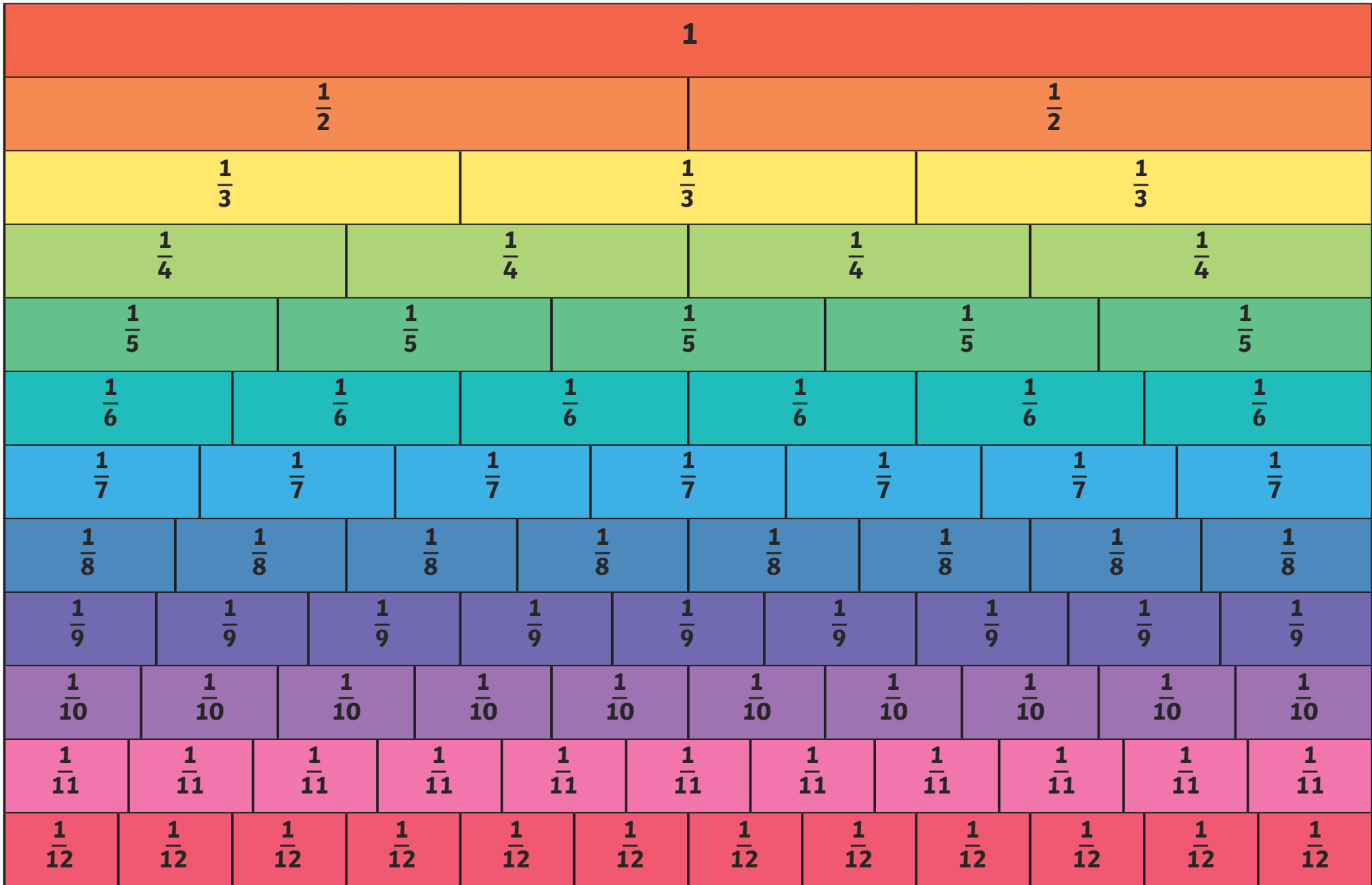
$$\frac{2}{3} \quad > \quad \frac{7}{12} \quad > \quad \frac{5}{9}$$

$$\frac{2}{3} \quad > \quad \frac{9}{15} \quad > \quad \frac{5}{9}$$

$$\frac{2}{3} \quad > \quad \frac{9}{15} \quad > \quad \frac{7}{12}$$

$$\frac{9}{15} \quad > \quad \frac{7}{12} \quad > \quad \frac{5}{9}$$

4. Circle all the fractions that are greater than $\frac{1}{4}$ but less than $\frac{1}{2}$.

$\boxed{\frac{3}{7}}$	$\frac{2}{3}$	$\frac{5}{8}$	$\boxed{\frac{4}{9}}$	$\boxed{\frac{2}{5}}$

1											
1/2						1/2					
1/3				1/3				1/3			
1/4			1/4			1/4			1/4		
1/5		1/5		1/5		1/5			1/5		
1/6		1/6		1/6		1/6		1/6		1/6	
1/7	1/7	1/7		1/7		1/7		1/7		1/7	
1/8	1/8	1/8	1/8		1/8		1/8		1/8		1/8
1/9	1/9	1/9	1/9	1/9		1/9		1/9		1/9	1/9
1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10	1/10		
1/11	1/11	1/11	1/11	1/11	1/11	1/11	1/11	1/11	1/11	1/11	
1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12	1/12

1) Compare these fractions using the < and > symbols. Show your working out using common denominators.

$$\frac{5}{8} \boxed{} \frac{4}{7} \qquad\qquad \frac{7}{12} \boxed{} \frac{3}{7}$$

$$\frac{\boxed{}}{\boxed{}} \quad \frac{\boxed{}}{\boxed{}} \qquad\qquad \frac{\boxed{}}{\boxed{}} \quad \frac{\boxed{}}{\boxed{}}$$

$$1\frac{3}{4} \boxed{} 1\frac{8}{9} \qquad\qquad 1\frac{3}{5} \boxed{} 1\frac{2}{3}$$

$$\frac{\boxed{}}{\boxed{}} \quad \frac{\boxed{}}{\boxed{}} \qquad\qquad \frac{\boxed{}}{\boxed{}} \quad \frac{\boxed{}}{\boxed{}}$$

2) Put these fractions in order from smallest to biggest. Show your working out using common denominators.

$$\frac{13}{15} \qquad \frac{5}{6} \qquad \frac{9}{10}$$

smallest $\dfrac{\boxed{}}{\boxed{}} \quad \dfrac{\boxed{}}{\boxed{}} \quad \dfrac{\boxed{}}{\boxed{}}$ biggest
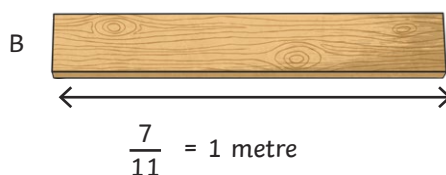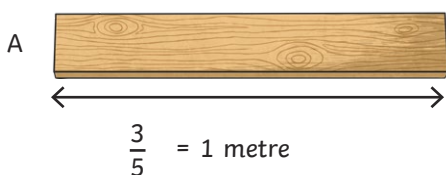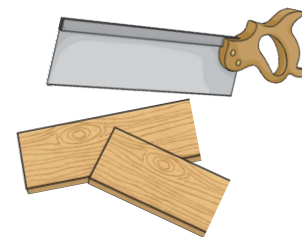
1) One fraction in this comparison statement is incorrect.

Identify which one and explain your reasoning.

$$\frac{1}{8} \ < \ \frac{1}{7} \ < \ \frac{4}{14} \ < \ \frac{20}{28} \ < \ \frac{32}{56}$$

_____

_____

2) Majid is sawing two pieces of wood to make a stand for his telescope.
He cuts both pieces of wood to 1 metre in length.

A

B

$\frac{3}{5}$ = 1 metre

$\frac{7}{11}$ = 1 metre

I cut more wood off piece B than piece A.

Do you agree? Explain your reasoning.

_____

_____

1) Some of the numerators and denominators are missing from this comparison statement.

$$\frac{2}{\boxed{}} < \frac{\boxed{}}{6} < \frac{\boxed{}}{9} < \frac{20}{\boxed{}}$$

Can you find different ways to make it mathematically correct?

2) Use the numbers in the stars to find as many possible answers to the challenge.

3   6   9   15   18   20   24   30

a) Create four improper fractions which all have different denominators and place them in descending order. Show your working out using common denominators.

b) Create four proper fractions which all have different denominators and place them in ascending order. Show your working out using common denominators.

Star Order Fraction Game
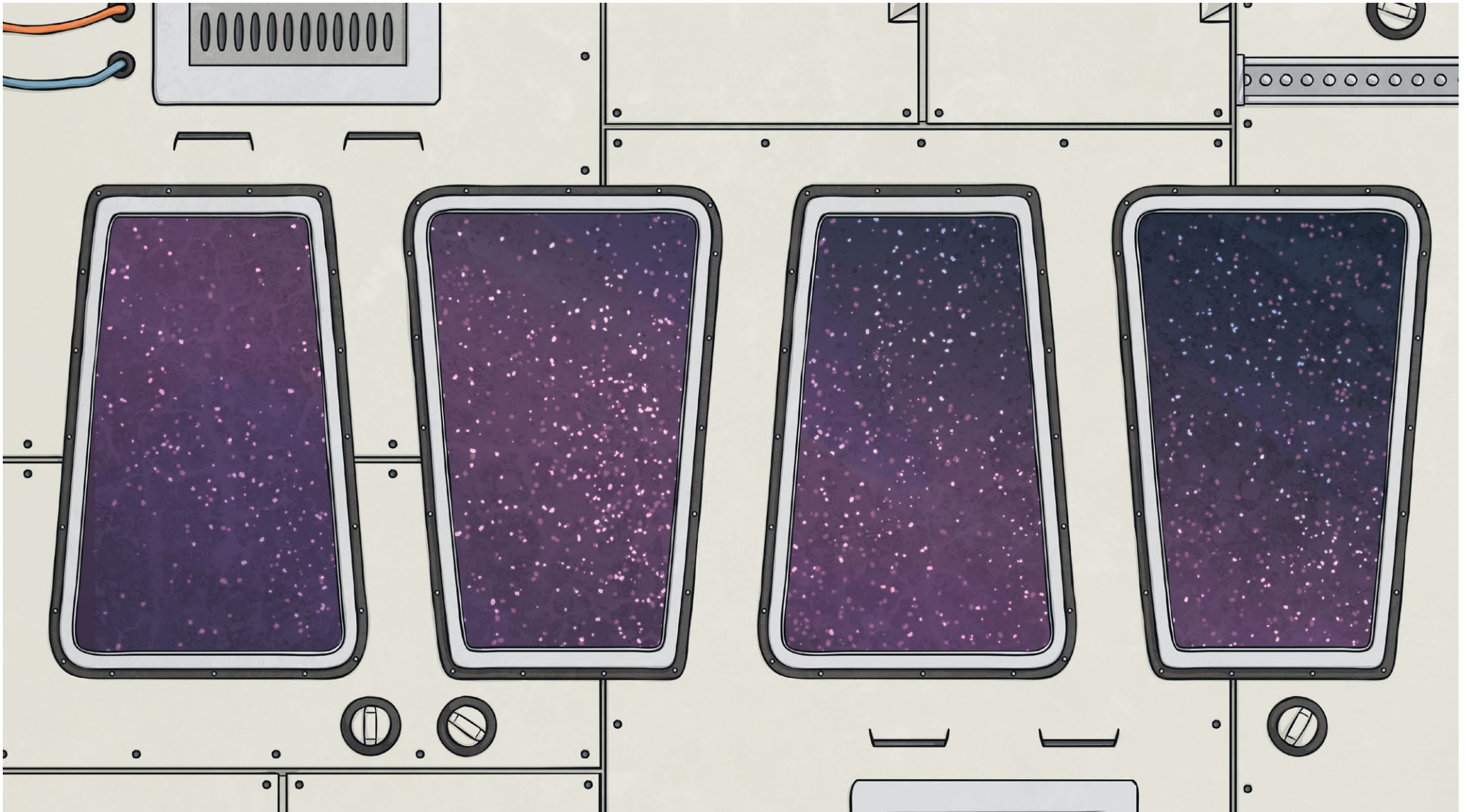
How to Play

• Shuffle the cards and place them face down on the table, spread out.

• To begin, take any four fraction cards and place them on the game mat in the order they are picked up (from left to right).

• Take turns to pick up a new fraction card and swap it with one of the current fractions, keeping in mind that the aim of the game is to get four fractions in ascending order. All the other players have to agree with your swap, so make sure you explain your reasoning!

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

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

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$1\dfrac{1}{4}$

$\dfrac{1}{5}$

$\dfrac{2}{5}$

$\dfrac{3}{5}$

$\dfrac{4}{5}$

$1\dfrac{1}{5}$

$\dfrac{1}{6}$

$\dfrac{2}{6}$

$\dfrac{3}{6}$

$\dfrac{4}{6}$

$\dfrac{5}{6}$

$\dfrac{7}{6}$

$\frac{1}{7}$

$\frac{2}{7}$

$\frac{3}{7}$

$\frac{4}{7}$

$\frac{5}{7}$

$\frac{6}{7}$

$\frac{8}{7}$

$\frac{1}{8}$

$\frac{2}{8}$

$\frac{3}{8}$

$\frac{4}{8}$

$\frac{5}{8}$

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$\frac{6}{8}$

$\frac{7}{8}$

$1\frac{1}{8}$

$\frac{1}{9}$

$\frac{2}{9}$

$\frac{3}{9}$

$\frac{4}{9}$

$\frac{5}{9}$

$\frac{6}{9}$

$\frac{7}{9}$

$\frac{8}{9}$

$1\frac{1}{9}$

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$\frac{1}{10}$

$\frac{2}{10}$

$\frac{3}{10}$

$\frac{4}{10}$

$\frac{5}{10}$

$\frac{6}{10}$

$\frac{7}{10}$

$\frac{8}{10}$

$\frac{9}{10}$

$\frac{11}{10}$

$\frac{1}{11}$

$\frac{2}{11}$

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$\frac{3}{11}$

$\frac{4}{11}$

$\frac{5}{11}$

$\frac{6}{11}$

$\frac{7}{11}$

$\frac{8}{11}$

$\frac{9}{11}$

$\frac{10}{11}$

$\frac{12}{11}$

$\frac{1}{12}$

$\frac{2}{12}$

$\frac{3}{12}$

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$$\frac{4}{12}$$

$$\frac{5}{12}$$

$$\frac{6}{12}$$

$$\frac{7}{12}$$

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1) Compare these fractions using the < and > symbols. Show your working out using common denominators.

$\frac{5}{8}$ ▢ $\frac{4}{7}$ $\frac{7}{12}$ ▢ $\frac{3}{7}$

▢▢ over ▢▢   ▢▢ over ▢▢

$1\frac{3}{4}$ ▢ $1\frac{8}{9}$ $1\frac{3}{5}$ ▢ $1\frac{2}{3}$

▢▢ over ▢▢   ▢▢ over ▢▢

2) Put these fractions in order from smallest to biggest. Show your working out using common denominators.

$\frac{13}{15}$ $\frac{5}{6}$ $\frac{9}{10}$

smallest ▢ ▢ ▢ biggest
         ▢ ▢ ▢

---

1) Compare these fractions using the < and > symbols. Show your working out using common denominators.

$\frac{5}{8}$ ▢ $\frac{4}{7}$ $\frac{7}{12}$ ▢ $\frac{3}{7}$

▢▢ over ▢▢   ▢▢ over ▢▢

$1\frac{3}{4}$ ▢ $1\frac{8}{9}$ $1\frac{3}{5}$ ▢ $1\frac{2}{3}$

▢▢ over ▢▢   ▢▢ over ▢▢

2) Put these fractions in order from smallest to biggest. Show your working out using common denominators.

$\frac{13}{15}$ $\frac{5}{6}$ $\frac{9}{10}$
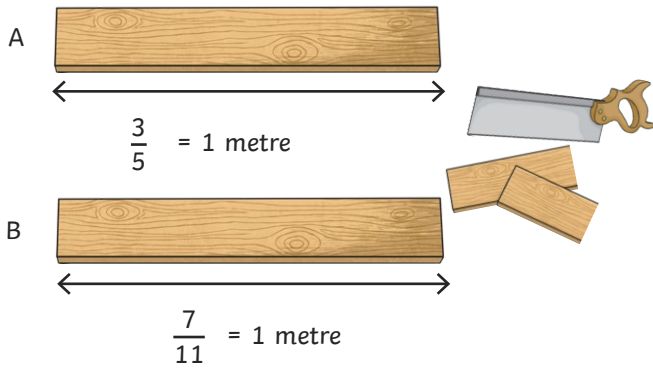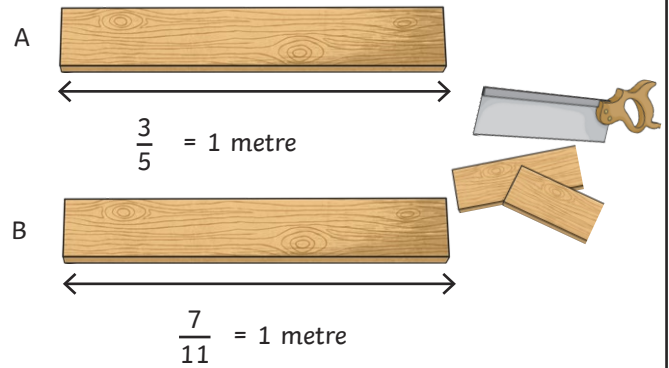
smallest ▢ ▢ ▢ biggest
         ▢ ▢ ▢

1) One fraction in this comparison statement is incorrect.

Identify which one and explain your reasoning.

$$\frac{1}{8} \; < \; \frac{1}{7} \; < \; \frac{4}{14} \; < \; \frac{20}{28} \; < \; \frac{32}{56}$$

2) Majid is sawing two pieces of wood to make a stand for his telescope.
He cuts both pieces of wood to 1 metre in length.

A

$\frac{3}{5}$ = 1 metre

B

$\frac{7}{11}$ = 1 metre

> I cut more wood off piece B than piece A.

Do you agree? Explain your reasoning.

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1) Some of the numerators and denominators are missing from this comparison statement.

$$\frac{2}{\square} < \frac{\square}{6} < \frac{\square}{9} < \frac{20}{\square}$$

Can you find different ways to make it mathematically correct?

2) Use the numbers in the stars to find as many possible answers to the challenge.

3   6   9   15

18   20   24   30

a) Create four improper fractions which all have different denominators and place them in descending order. Show your working out using common denominators.

b) Create four proper fractions which all have different denominators and place them in ascending order. Show your working out using common denominators.

---

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