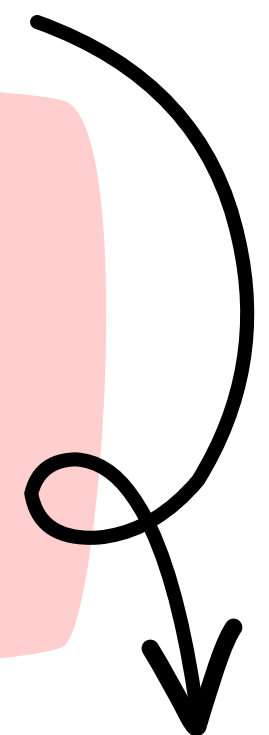


FRACTIONS MEGA PACK

Keep scrolling to see
what's included!



READY TO MAKE STAGE 3 FRACTIONS FUN AND EASY ?



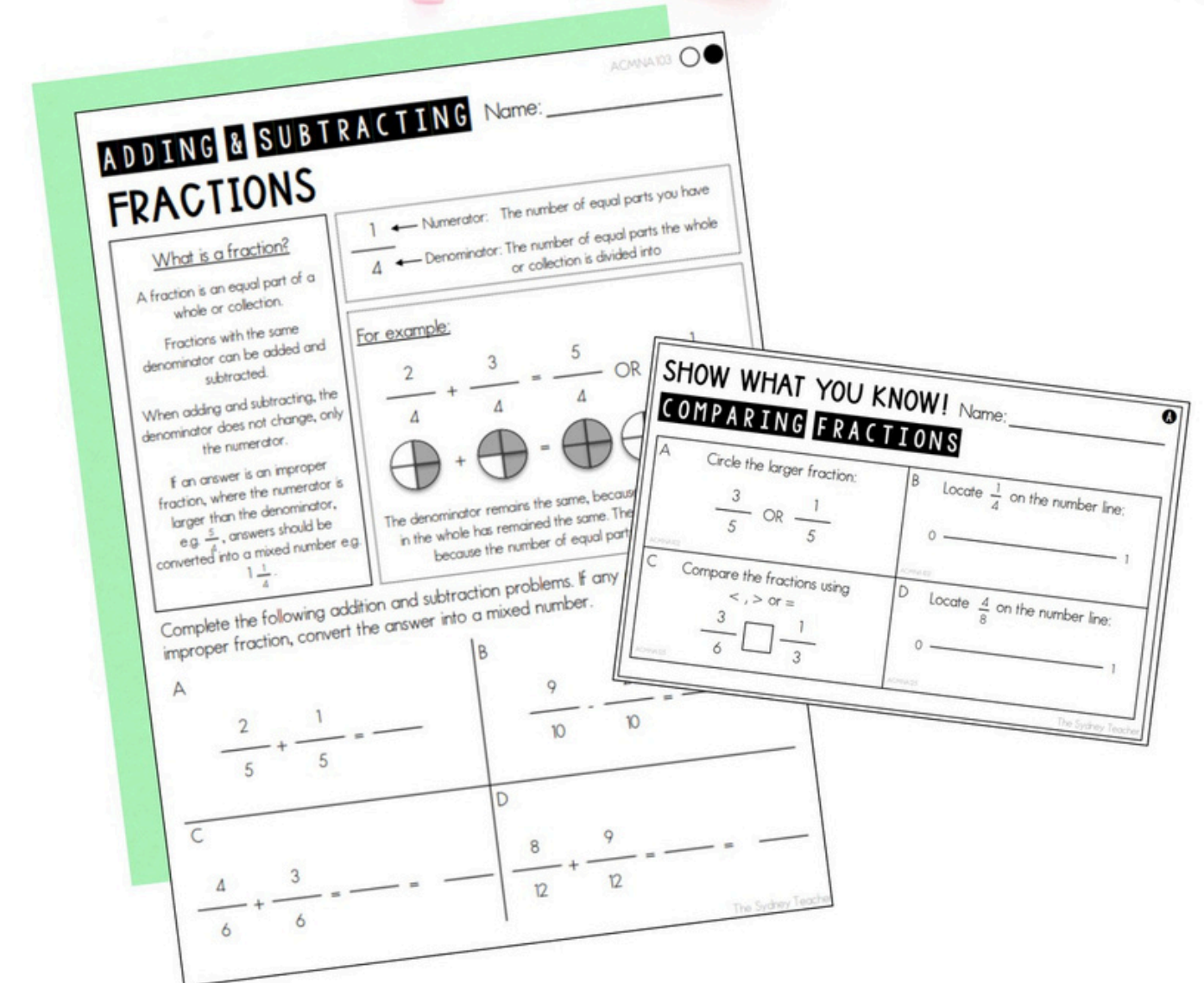
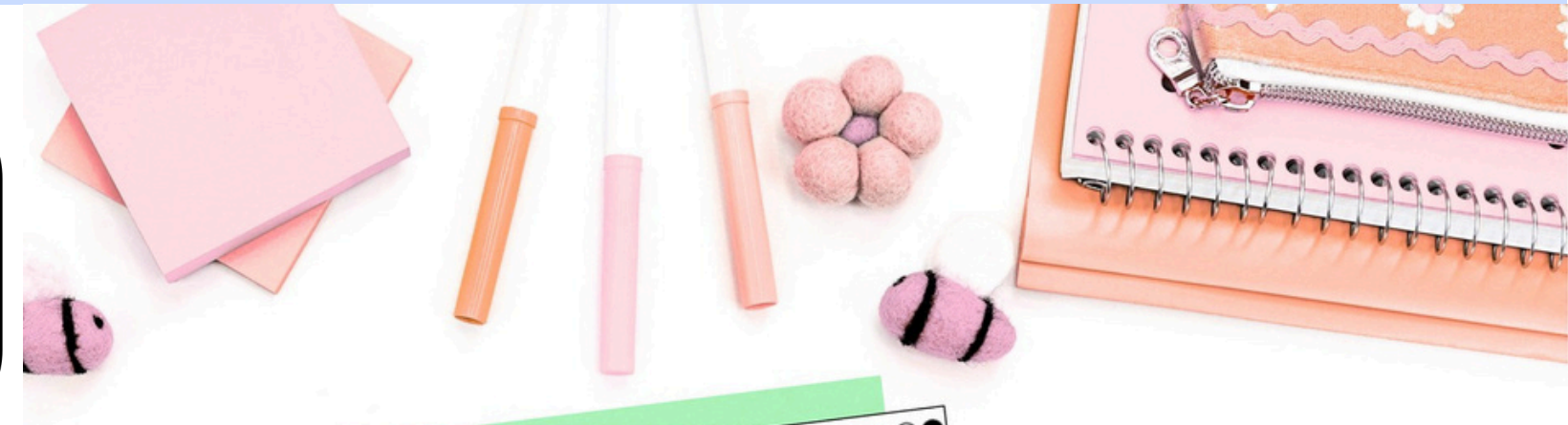
All tasks are aligned to Year 5 and 6 Australian Curriculum Outcomes.



Pre and post slips support assessment, grouping, and reporting.



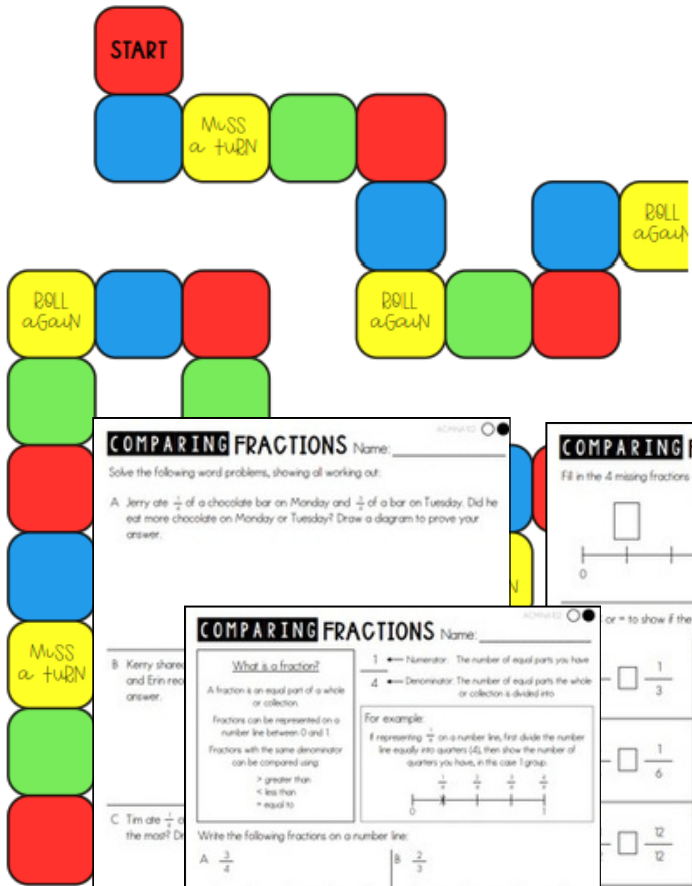
Differentiated worksheets with drills, problems, and games—just print and go!



INCLUDES ALL THESE AND MORE!

FRACTIONS FUN

Each player will take turns rolling a die and moving their counter this many spaces. Players will select a question card based on the coloured square. If the player answers correctly, they will remain on their square, if incorrectly they must return to their previous square. Players who land square miss a turn or roll again. The first player to make it to the end is the winner.



BOARD GAME CARDS

Getting set up:
STEP 1: Print in colour, or onto coloured cardboard
STEP 2: Cut out cards
STEP 3: Fold along the dotted line to hide the answers

Calculate $\frac{1}{3}$ of 12	Calculate $\frac{1}{5}$ of 25	Calculate $\frac{1}{8}$ of 24	Calculate $\frac{1}{4}$ of 20
----- fold here -----	----- fold here -----	----- fold here -----	----- fold here -----
Answer: 4	Answer: 5	Answer: 3	Answer: 5

Calculate $\frac{1}{7}$ of 77	Calculate $\frac{1}{4}$ of 40	Calculate $\frac{1}{9}$ of 81	Calculate $\frac{1}{6}$ of 36
----- fold here -----	----- fold here -----	----- fold here -----	----- fold here -----
Answer: 11	Answer: 10	Answer: 9	Answer: 6

Calculate $\frac{2}{3}$ of 15	Calculate $\frac{4}{5}$ of 25	Calculate $\frac{3}{8}$ of 24	Calculate $\frac{2}{5}$ of 20
----- fold here -----	----- fold here -----	----- fold here -----	----- fold here -----
Answer: 10	Answer: 20	Answer: 9	Answer: 8

Calculate $\frac{2}{7}$ of 77	Calculate $\frac{3}{4}$ of 40	Calculate $\frac{5}{6}$ of 30	Calculate $\frac{7}{8}$ of 24
----- fold here -----	----- fold here -----	----- fold here -----	----- fold here -----
Answer: 22	Answer: 30	Answer: 25	Answer: 21


FRACTIONS OF A QUANTITY

ACMNA127

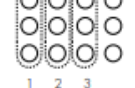
Name: _____

For example:
If calculating $\frac{3}{4}$ of 12, first find $\frac{1}{4}$ of 12.

Step 1: Divide the number in the collection by the denominator:
 $12 \div 4 = 3$. This means that $\frac{1}{4}$ of 12 is 3.



Step 2: Multiply this number by the numerator: $3 \times 3 = 9$.
This means that $\frac{3}{4}$ of 12 is 9.



1 ← Numerator: The number of equal parts you have
4 ← Denominator: The number of equal parts the whole or collection is divided into

Calculate the fraction of a collection, showing all working out:

A $\frac{3}{4}$ of 16 = 12 B $\frac{2}{5}$ of 20 = 8

COMPARING FRACTIONS

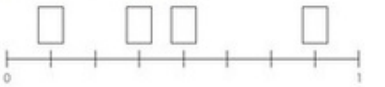
Name: _____

Solve the following word problems, showing all working out:

A. Jerry ate $\frac{1}{4}$ of a chocolate bar on Monday and $\frac{1}{5}$ of a bar on Tuesday. Did he eat more chocolate on Monday or Tuesday? Draw a diagram to prove your answer.

B. Kerry shared an apple with John and Erin. Kerry kept $\frac{1}{3}$, John received $\frac{1}{4}$ and Erin received $\frac{1}{6}$. Who got the most? Draw a diagram to prove your answer.

C. Tim ate $\frac{1}{3}$ of a pizza, Harry ate $\frac{1}{4}$, Ryan ate $\frac{1}{5}$ and Jess ate the rest. Who ate the most? Draw a diagram to prove your answer.




COMPARING FRACTIONS BOXES

Name: _____

Players take turns placing 2 dots to create a line. When a player creates a line (with 4 single sided) the player must compare the fractions within the box and record a >, < or =.

If the player does this correctly, they will write their initials in the box and the box will be theirs. If the player is incorrect, the other player will have an opportunity to answer the question correctly and claim the box.

The game ends when all lines and boxes have been formed. The winner is the player with the most boxes.



ADDING & SUBTRACTING FRACTIONS

Name: _____

Complete the following addition and subtraction problems. If any answer is an improper fraction, convert the answer into a mixed number.

A. $\frac{3}{5} + \frac{2}{10} =$ B. $\frac{6}{8} - \frac{1}{4} =$

C. $\frac{9}{10} + \frac{1}{2} =$ D. $\frac{2}{3} + \frac{9}{21} =$

E. $\frac{6}{7} + \frac{3}{4} =$ F. $\frac{4}{5} + \frac{2}{3} =$

G. $\frac{2}{6} + \frac{7}{10} =$ H. $\frac{5}{8} + \frac{5}{12} =$

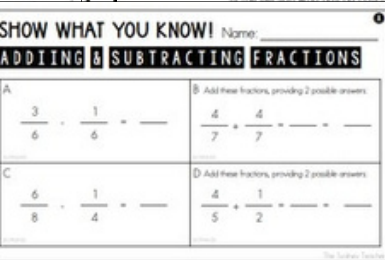
FRACTIONS BUMP!

Name: _____

Each player will start with 10 counters. Players will then take turns rolling a 6-sided die and solving one of the addition or subtraction problems in this row. Players must convert all improper fractions into mixed numbers. If the problem is solved correctly, the player may cover this square with their counter.

Don't Worry!

If all the squares in a row are taken, you can BUMP another player off their square, and place your counter there instead. Only squares that have 2 of a player's counters are safe. These cannot be bumped. The winner of the game is the person who has no counters left.



SHOW WHAT YOU KNOW! ADDING & SUBTRACTING FRACTIONS

Name: _____

A. $\frac{3}{6} - \frac{1}{6} =$ B. Add these fractions, providing 2 possible answers: $\frac{4}{7} + \frac{4}{7} =$

C. $\frac{6}{8} - \frac{1}{4} =$ D. Add these fractions, providing 2 possible answers: $\frac{4}{5} + \frac{1}{2} =$

SHOW WHAT YOU KNOW! ADDING & SUBTRACTING FRACTIONS

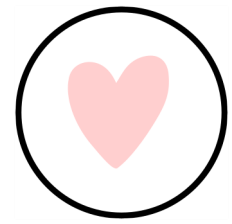
Name: _____

A. $\frac{3}{6} - \frac{1}{6} =$ B. Add these fractions, providing 2 possible answers: $\frac{4}{7} + \frac{4}{7} =$

C. $\frac{6}{8} - \frac{1}{4} =$ D. Add these fractions, providing 2 possible answers: $\frac{4}{5} + \frac{1}{2} =$

CONTENTS

What's included in this 30 page pack?



Comparing Fractions

⇒ Show what you know pre and post assessment slips (Year 5 & 6)

YEAR 5

⇒ Like Denominators 2 x worksheets

⇒ Like Denominators 2 x word problems

⇒ Like Denominators game

YEAR 6

⇒ Related Denominators 2 x worksheets

⇒ Related Denominators 2 x word problems

⇒ Related Denominators game



ACMNA102

COMPARING FRACTIONS

Name: _____

What is a fraction?

A fraction is an equal part of a whole or collection.

Fractions can be represented on a number line between 0 and 1.

Fractions with the same denominator can be compared using:

- > greater than
- < less than
- = equal to

1 ← Numerator: The number of equal parts you have

4 ← Denominator: The number of equal parts the whole or collection is divided into

For example:

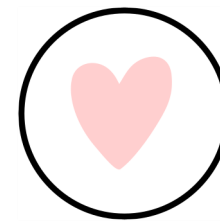
If representing $\frac{1}{4}$ on a number line, first divide the number line equally into quarters (4), then show the number of quarters you have, in this case 1 group.

Write the following fractions on a number line:

A $\frac{3}{4}$	B $\frac{2}{3}$
C $\frac{3}{6}$	D $\frac{7}{8}$

CONTENTS

What's included in this 30 page pack?



Adding & Subtraction Fractions

⇒ Show what you know pre and post assessment slips (Year 5 & 6)

YEAR 5

⇒ Like Denominators 2 x worksheets

⇒ Like Denominators 2 x word problem worksheets

⇒ Like Denominators game

YEAR 6

⇒ Related Denominators 2 x worksheets

⇒ Related Denominators 2 x word problem worksheets

⇒ Related Denominators game



ACMNA103 ○●

ADDING & SUBTRACTING FRACTIONS Name: _____

What is a fraction?

A fraction is an equal part of a whole or collection.


Fractions with the same denominator can be added and subtracted.

When adding and subtracting, the denominator does not change, only the numerator.

If an answer is an improper fraction, where the numerator is larger than the denominator, e.g. $\frac{5}{4}$, answers should be converted into a mixed number e.g. $1\frac{1}{4}$.

For example:

$\frac{2}{4} + \frac{3}{4} = \frac{5}{4}$ OR $1\frac{1}{4}$

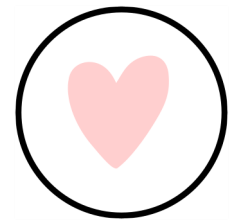


The denominator remains the same, because the number of parts in the whole has remained the same. The numerator changes because the number of equal parts has increased.

Complete the following addition and subtraction problems. If any answer is an

CONTENTS

What's included in this 30 page pack?



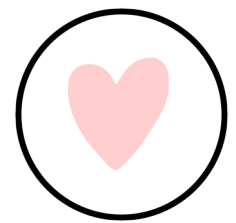
Fractions of a Quantity YEAR 6

⇒ Show what you know pre and post assessment slips (Year 6)

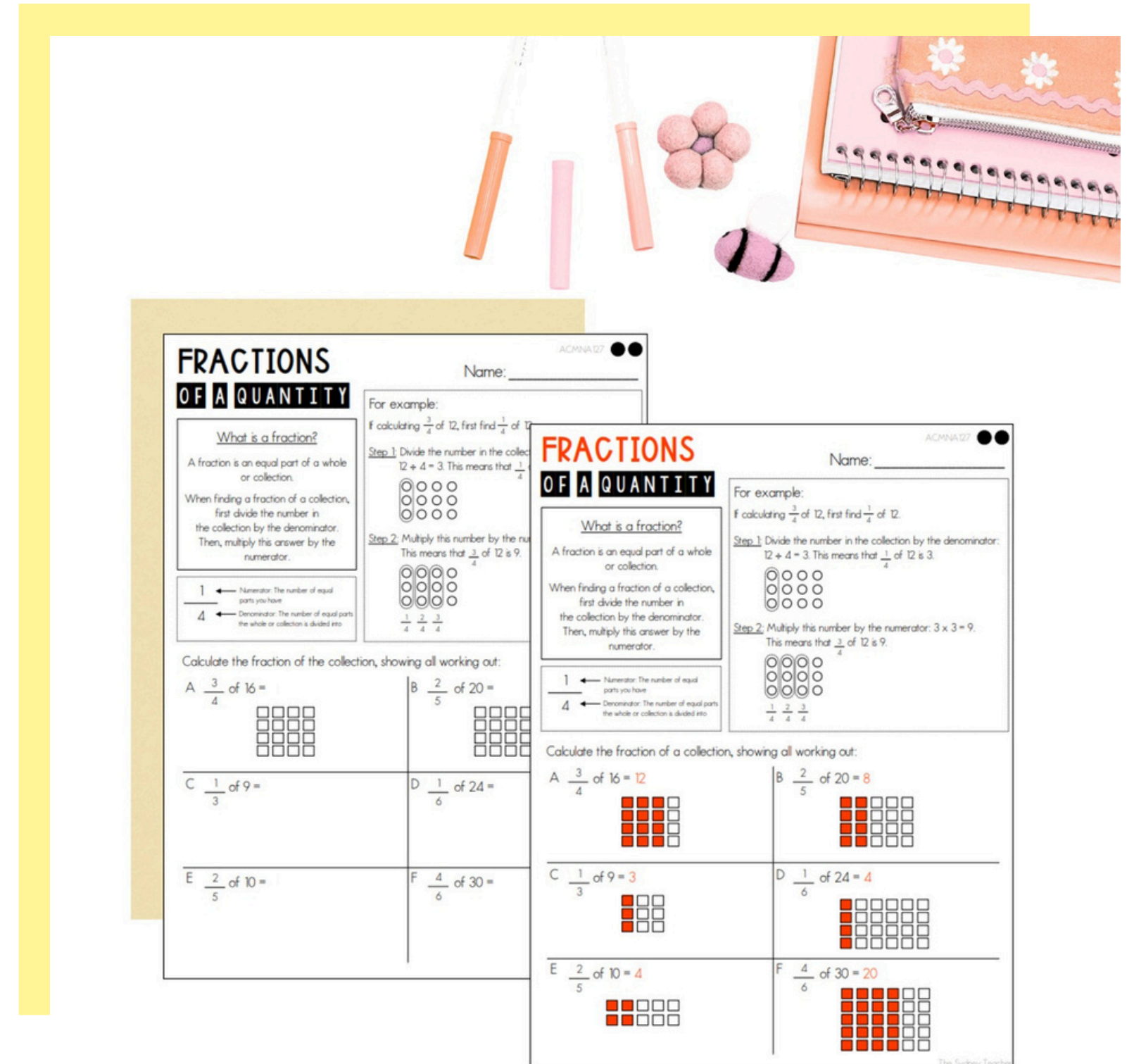
⇒ 2 x worksheets

⇒ 2 x word problems worksheets

⇒ Board Game



All answers are provided with working out shown, so students can self mark!



HOW TO USE THIS RESOURCE

- First, explicitly teach each outcome.
- Then, **assess student understanding using the 'show what you know' slips**. Question A and B assess Year 5 outcomes, and Question C and D assess Year 6 outcomes.

SHOW WHAT YOU KNOW! Name: _____

COMPARING FRACTIONS

A Circle the larger fraction: $\frac{3}{5}$ OR $\frac{1}{5}$ ANSWER: _____	B Locate $\frac{1}{4}$ on the number line: 0 _____ 1 ANSWER: _____
C Compare the fractions using <, > or =: $\frac{3}{6}$ <input type="text"/> $\frac{1}{3}$ ANSWER: _____	D Locate $\frac{4}{8}$ on the number line: 0 _____ 1 ANSWER: _____

The Sydney Teacher

SHOW WHAT YOU KNOW! Name: _____

ADDING & SUBTRACTING FRACTIONS

A $\frac{3}{6} - \frac{1}{6} = \underline{\hspace{2cm}}$ ANSWER: _____	B Add these fractions, providing 2 possible answers: $\frac{4}{7} + \frac{4}{7} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ ANSWER: _____
C $\frac{6}{8} - \frac{1}{4} = \underline{\hspace{2cm}}$ ANSWER: _____	D Add these fractions, providing 2 possible answers: $\frac{4}{5} + \frac{1}{2} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$ ANSWER: _____

The Sydney Teacher


SHOW WHAT YOU KNOW! Name: _____

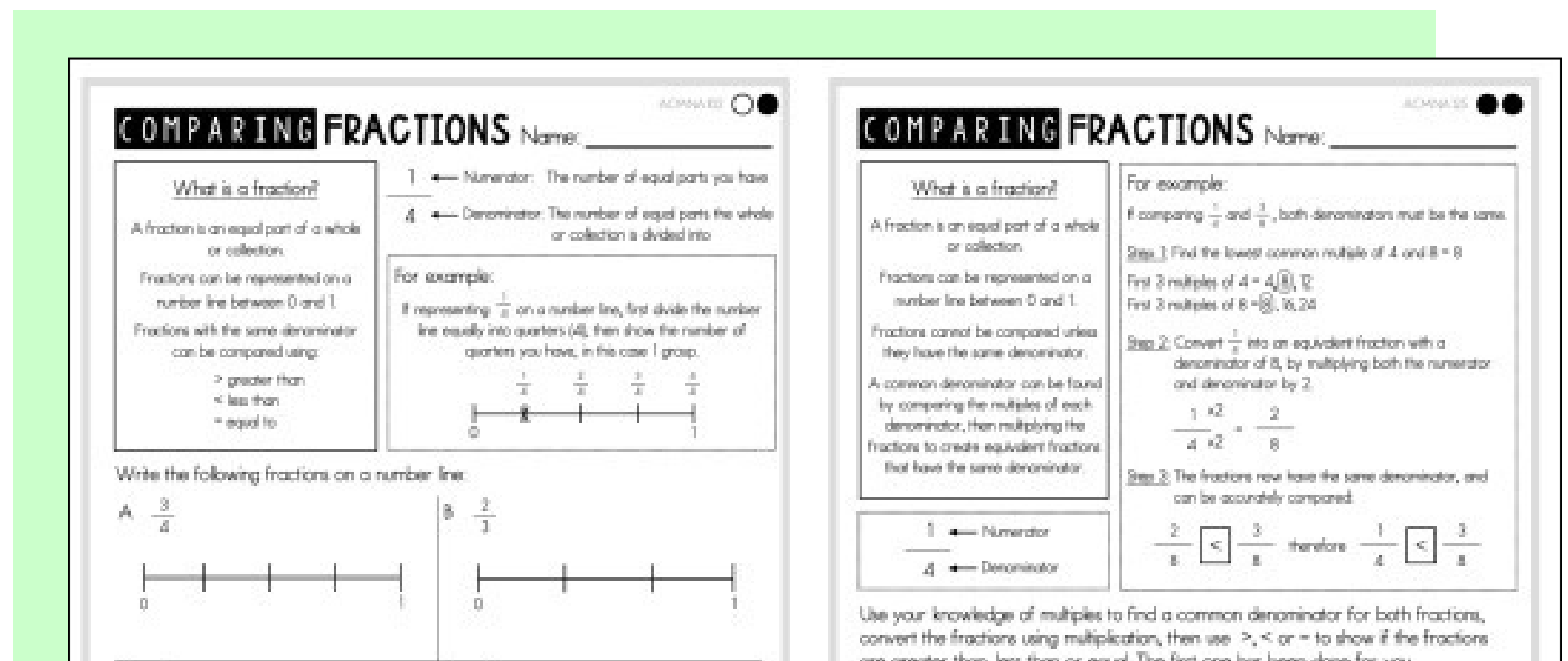
FRACTIONS OF A QUANTITY

A Draw a picture to model $\frac{1}{2}$ of 6: ANSWER: _____	B What is $\frac{1}{4}$ of 12? ANSWER: _____
C What is $\frac{4}{6}$ of 36? ANSWER: _____	D Lauren earns \$1525 per month, and spends $\frac{2}{3}$ on bills. How much does she spend on bills? ANSWER: _____

The Sydney Teacher

HOW TO USE THIS RESOURCE

 Mark slips, then use the data to organise students into math groups. All worksheets that cover **Year 5 outcomes** have **one coloured circle**. All worksheets that cover **Year 6 outcomes** have **two coloured circles**. **This coded system allows for easy differentiation.** All students may work on the same concept, i.e. adding and subtracting fractions, but do so at their level, either with like or unlike denominators.



The image shows two sample worksheets titled "COMPARING FRACTIONS".

Worksheet 1 (Left):

- What is a fraction?**
A fraction is an equal part of a whole or collection.
Fractions can be represented on a number line between 0 and 1.
Fractions with the same denominator can be compared using:
 > greater than
 < less than
 = equal to
- For example:**
If representing $\frac{1}{4}$ on a number line, first divide the number line evenly into quarters (4), then show the number of quarters you have, in this case 1 group.
The number line shows 0, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$, and 1.
- Write the following fractions on a number line:**
A. $\frac{3}{4}$
B. $\frac{2}{3}$
The number lines are shown with 0 and 1 marked.

Worksheet 2 (Right):

- What is a fraction?**
A fraction is an equal part of a whole or collection.
Fractions cannot be compared unless they have the same denominator.
A common denominator can be found by comparing the multiples of each denominator, then multiplying the fractions to create equivalent fractions that have the same denominator.
- For example:**
If comparing $\frac{1}{4}$ and $\frac{3}{8}$, both denominators must be the same.
Step 1: Find the lowest common multiple of 4 and 8 = 8.
First 3 multiples of 4 = 4, 8, 12.
First 3 multiples of 8 = 8, 16, 24.
Step 2: Convert $\frac{1}{4}$ into an equivalent fraction with a denominator of 8, by multiplying both the numerator and denominator by 2.
$$\frac{1}{4} \times \frac{2}{2} = \frac{2}{8}$$

Step 3: The fractions now have the same denominator, and can be accurately compared.
$$\frac{2}{8} < \frac{3}{8} \text{ therefore } \frac{1}{4} < \frac{3}{8}$$
- Legend:**
1 ← Numerator
4 ← Denominator
- Use your knowledge of multiples to find a common denominator for both fractions, convert the fractions using multiplication, then use >, < or = to show if the fractions are greater than, less than or equal. The first one has been done for you.**

HOW TO USE THIS RESOURCE

At the end of the teaching sequence, students can be assessed again using the B version of the 'show what you know' slips.

Word problems and games have been included to further challenge students once they have mastered each skill!

SHOW WHAT YOU KNOW! Name: _____

COMPARING FRACTIONS

<p>A Circle the larger fraction:</p> $\frac{2}{8} \text{ OR } \frac{5}{8}$ <p>ACMNA102</p>	<p>B Locate $\frac{1}{3}$ on the number line</p> <p>0 _____</p> <p>ACMNA102</p>
<p>C Compare the fractions using $<$, $>$ or $=$</p> $\frac{2}{10} \square \frac{3}{5}$ <p>ACMNA102</p>	<p>D Locate $\frac{3}{6}$ on the number line</p> <p>0 _____</p> <p>ACMNA102</p>



WHAT OTHERS ARE SAYING!

*"This is **a really well set out resource** that is **easy to use in the classroom.**"*

-Kylie S.



*"So comprehensive! I love this resource. **Such a broad range of activities** and differentiated to **suit the different levels in my class.**"*

-Kym M.

*"These resources are so thorough. **The worked examples are perfect.***
Thank you."

-Gayle O.

HAVE YOU SEEN THIS?



Turn your fractions unit into
an adventure!

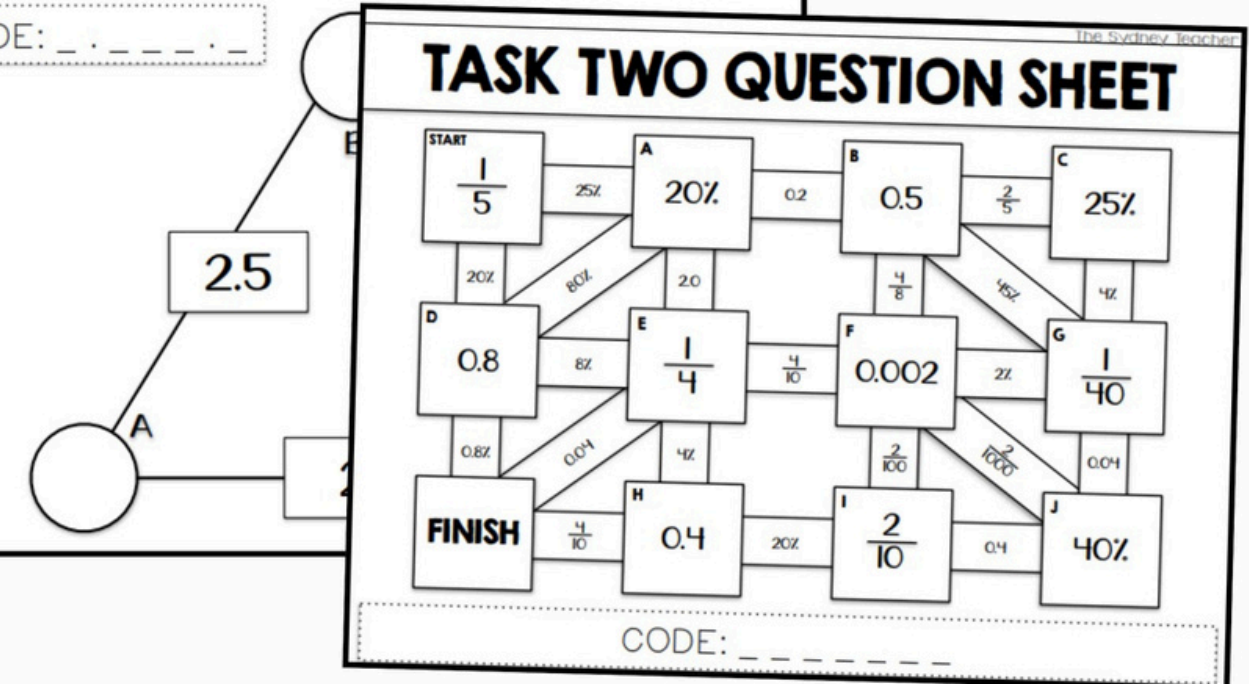
This **Fractions and
Decimals Escape Room**
is a perfect add-on to **boost
engagement and
collaboration!**

FRACTIONS & DECIMALS **ESCAPE ROOM**

THE SYDNEY TEACHER

TASK THREE QUESTION SHEET

CODE: _ . _ _ _ . _



CODE: _ _ _ _ _

YEARS 5&6 EMERGENCY LOCK DOWN