COASTMETRO
ELEMENTARY MATH PROJECT

GRADE 6 PRACTICE QUESTIONS

IMPROPER FRACTIONS & MIXED NUMBERS

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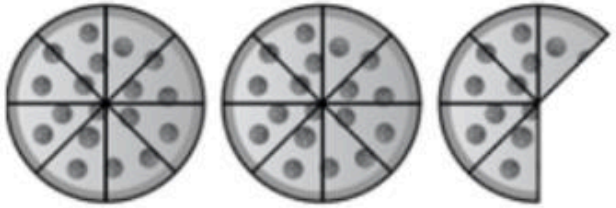
ELEMENTARY MATH PROJECT

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

1. Write an improper fraction and mixed number for each image.

		
Improper Fraction: Mixed Number:	Improper Fraction: Mixed Number:	Improper Fraction: Mixed Number:

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

2. Draw a picture to represent seven quarters

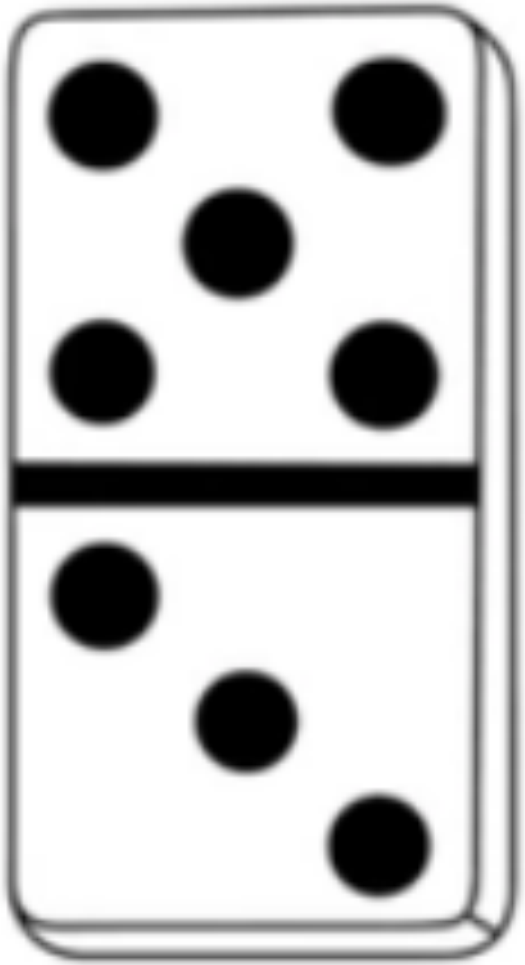
GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

3. Circle the fractions that are more than one whole. Explain or show how you know.

6/2 ⅓ 5/3 12/5 2/4 1⅓

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

4. Draw a picture to represent the improper fraction shown on the domino.
Write the number as an improper fraction and a mixed number.



GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

5. Write two fractions that are equivalent to 8/6.

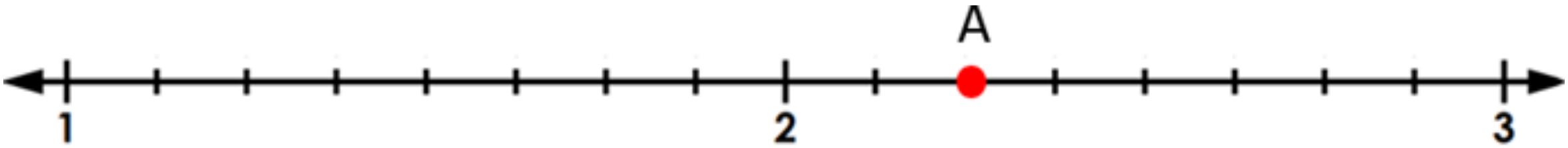
GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

6. How many eighths are in 2 wholes? 3 wholes? 10 wholes?

Show or explain how you know.

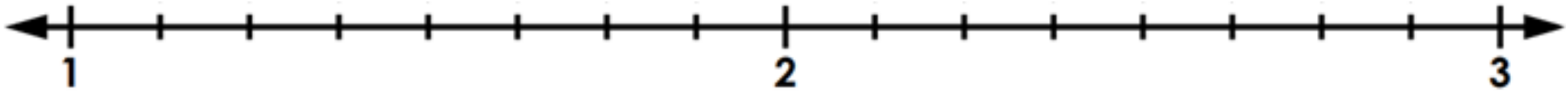
GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

7. What fraction is at Point A on the number line?
Write it as a fraction and a mixed number.



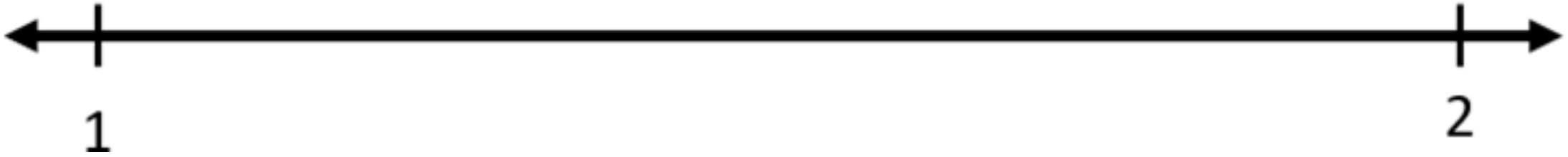
GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

8. Show where 11/8 belongs on the number line below:



GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

9. Show roughly where 5/4 should go on the number line below.



GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

10. Write the numbers below in order from least to greatest. Show your thinking.

$1\frac{2}{3}$ $\frac{8}{3}$ $1\frac{3}{4}$ $2\frac{1}{3}$ 2

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

11. Which is bigger: 3 ⅔ or 14/3? Explain or show your thinking.

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GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

12. Complete the table. Show your thinking,

Mixed Number	Improper Fraction
$3\frac{1}{2}$	
	$\frac{9}{4}$
$2\frac{3}{7}$	
	$\frac{18}{5}$
Challenge: $17\frac{8}{9}$	

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

13. Draw a picture to show the difference between three quarters and four thirds. Write an inequality statement to compare the fractions.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

14. Use division to convert 22/5 into a mixed number. Check your answer with a picture.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

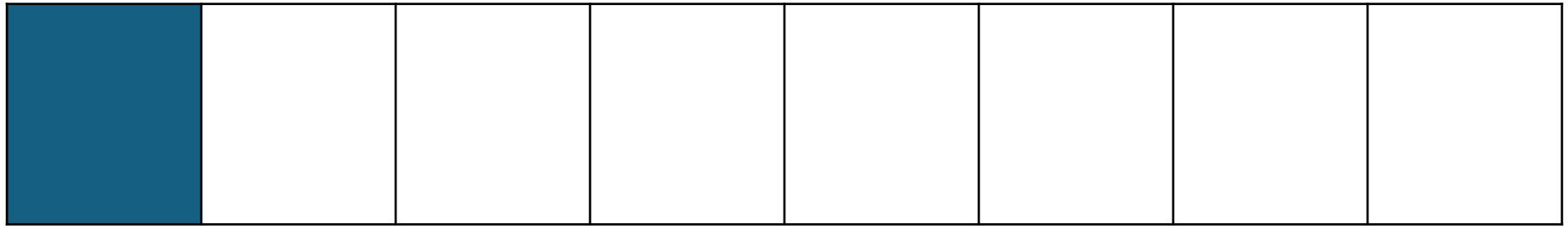
15. What fraction is showing here? Is there more than one answer? Explain.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

16. With pattern blocks, if two hexagons is 1 whole, how much is 8 triangles? What about 3 trapezoids? What about 1 triangle?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

17. Colour one whole if the shaded section is 1/5 . How much would it be if the whole rectangle was shaded?



GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

18. How many sevenths make up one whole? Two wholes?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

19. Using Cuisenaire Rods:
a. If the dark green rod is 1 whole, how much are the other rods worth?

b. what about if the light green rod is 1 whole?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

20. Jayden read 3 2/5 pages of his book yesterday, and 19/4 pages the day before. On which day did he read more? Show your thinking.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

21. Put the following numbers on a number line. Show your thinking.

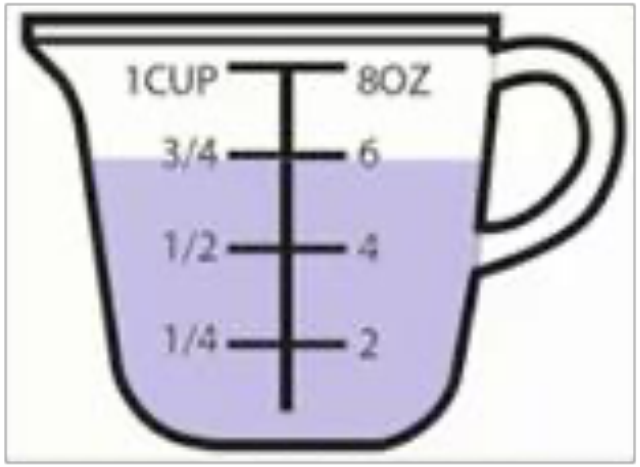
$$2\frac{1}{4}, \frac{14}{5}, 3\frac{2}{5}, 2, 2\frac{1}{2}$$

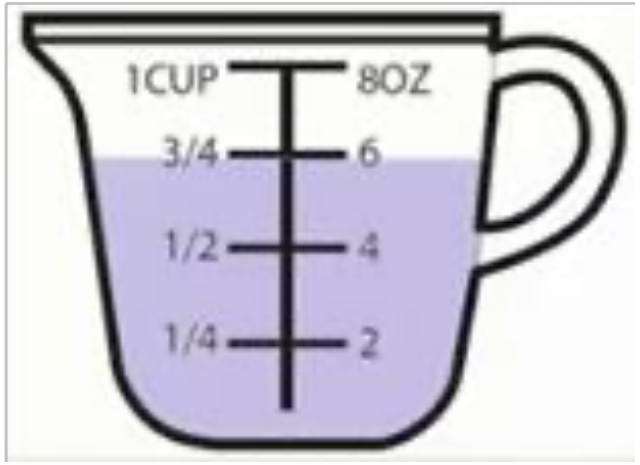
GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

22. What two whole numbers is 34/6 between? Draw a number line to show your thinking.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

23. Write a mixed number and improper fraction to show how many cups altogether. Draw or write to explain your thinking.





GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

24. A recipe calls for 2 ¼ cups of flour but you only have 1 ½ cups. How much more flour do you need?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

25. How much time is 2 ¾ hours?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

26. Sophie saw on a very strangely written recipe that she needed 33/4 cups of milk. Convert that measurement into a mixed number to make it easier for Sophie.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

27. Do 1 1/2 and 9/6 represent the same amount?

Show your thinking with pictures and numbers.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

28. Make a number line and place these fractions on it:

3/6 , 1 1/3 , 3/2.

Think carefully about how to partition the number line.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

29. Your neighbor has 3 1/2 dozen eggs in their fridge. You have 50 eggs. Who has more? How do you know?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

30. Skip count by ⅔ until you get to a number that is equivalent to 4.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

31. Is 2 ¾ and 7 ⅚ more than 10 or less than 10?
How do you know?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

32. A 2-cup measuring cup is filled to 1 ¼ cups. How much room is left in the measuring cup?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

33. Addie said she is 6 ¾ years old. In how many months will Addie turn 7?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
CLOSED QUESTIONS

34. Your class is designing a rectangular garden for the front of the school. The area of the garden needs to be 20 square metres. If one side length of the garden is going to be 2 1/2 metres, what will the perimeter be?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
OPEN QUESTIONS

1. Write two mixed numbers that are between 2 and 3.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
OPEN QUESTIONS

2. Write two mixed numbers that are between 2 and 2 ¼.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
OPEN QUESTIONS

3. Write two improper fractions that are really close to 4. How do you know they are really close?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
OPEN QUESTIONS

4. Write the smallest mixed number you can think of. Could there be a mixed number even smaller than the one you chose? Explain or show your thinking.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
OPEN QUESTIONS

5. Write an improper fraction that is between 1 7/8 and 2 1/4. Show how you know.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
OPEN QUESTIONS

6. When can finding a common denominator help you compare improper fractions or mixed numbers? Explain and give an example.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
OPEN QUESTIONS

7. Choose ten or more fractions between 1 and 3.

Record these fractions as improper fractions and mixed numbers.

Record the fractions in order from least to greatest along a number line.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
OPEN QUESTIONS

8. Here is a list of benchmark numbers in order: 0, 0.5, 1, 1.5, 2

a. Draw a number line with these benchmark numbers on it and then add these numbers to it: 3/4, 0.2, 8/10, 0.45, 17/10, 1.51, 1/4, 0.89, 130/100, 1⁄4.

b. Add two or more fractions or decimal numbers of your choosing. Explain or show your thinking.

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
OPEN QUESTIONS

9. Choose one of these numbers: 18/10 or 2 3/4

a. Represent the number in different ways (pictures, words, symbols).
b. How many different ways can you decompose the number?
c. What different ways can you count to that number?

GRADE 6 IMPROPER FRACTIONS & MIXED NUMBERS:
OPEN QUESTIONS

9. Choose one of these numbers: 18/10 or 2 3/4

d. What is 0.5 more than your number?
e. What is 0.5 less?
f. What is a number that is about half of your number?
g. Show your number on a number line then write six other numbers putting them all in order.