

NAME _____

DATE 4/26



Simplifying Fractions Review

Asynchronous work
due Mon. 4/29

1 Divide the numerator and denominator of each fraction by the largest factor they have in common (the greatest common factor) to show each fraction in its simplest form. A fraction is in its simplest form when its numerator and denominator have no common factor other than 1. Some of the fractions below may already be in simplest form.

Fraction	Factors of the Numerator (top number)	Factors of the Denominator (bottom number)	Greatest Common Factor	Divide	Simplest Form
ex $\frac{21}{24}$	1, ③ 7, 21	1, 2, ③ 4, 6, 8, 12, 24	3	$\frac{21 \div 3}{24 \div 3} = \frac{7}{8}$	$\frac{7}{8}$
a $\frac{14}{16}$				$\frac{14 \div \square}{16 \div \square} = \frac{\square}{\square}$	$\frac{\square}{\square}$
b $\frac{16}{21}$				$\frac{16 \div \square}{21 \div \square} = \frac{\square}{\square}$	$\frac{\square}{\square}$
c $\frac{27}{36}$				$\frac{27 \div \square}{36 \div \square} = \frac{\square}{\square}$	$\frac{\square}{\square}$
d $\frac{15}{36}$				$\frac{15 \div \square}{36 \div \square} = \frac{\square}{\square}$	$\frac{\square}{\square}$

2 Write two fractions that are equal to the fraction shown.

ex $\frac{3}{4} = \frac{6}{8}$ and $\frac{3}{4} = \frac{9}{12}$	a $\frac{6}{21} = \frac{\square}{\square}$ and $\frac{6}{21} = \frac{\square}{\square}$
b $\frac{3}{15} = \frac{\square}{\square}$ and $\frac{3}{15} = \frac{\square}{\square}$	c $\frac{7}{12} = \frac{\square}{\square}$ and $\frac{7}{12} = \frac{\square}{\square}$

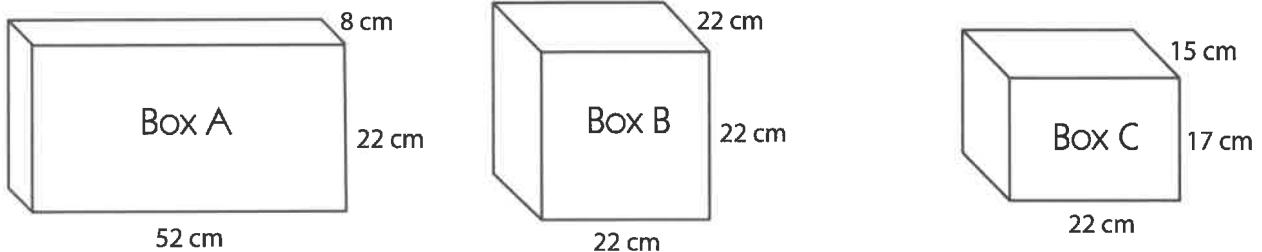
NAME _____

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Boxes & Banners

- 1** Ebony's cousin Jada is away at college this year. Ebony wants to send her a package with some candy in it. She has the three boxes shown below. Which box should she use if she wants to send Jada as much candy as possible?



- a** What do you need to know about the boxes in order to answer the question above?
- b** Solve the problem. Show all your work.
- 2** Ebony also made a banner for Jada to hang on the door of her dormitory room. The banner is $1\frac{1}{4}$ feet wide and $2\frac{1}{2}$ feet long.
- a** Mark the bubble to show which flag-making ratio Ebony used.
- 2:3 3:5 1:2 3:4
- b** What is the area of the banner? Make a labeled sketch to model and solve this problem. Show all of your work.

NAME _____

DATE _____



Rob's Review

1 Rob was solving multiplication problems. Write an expression with parentheses to record his thinking for each of the two problems below.

a Rob solved 97×50 by multiplying 100 by 50 and then removing 3 groups of 50.

b Rob solved 25×44 by finding $\frac{1}{4}$ of 44 and then multiplying by 100.

2 Evaluate Rob's two expressions.

a

b

3 Rob saw a friend use the standard algorithm to solve the problem 290×14 .

a Solve the problem using the standard algorithm.

b Rob said he thought there was a more efficient way to solve this problem, and suggested his friend use the ratio table below. Fill in Rob's ratio table.

1	2	3	300	10	290
14					

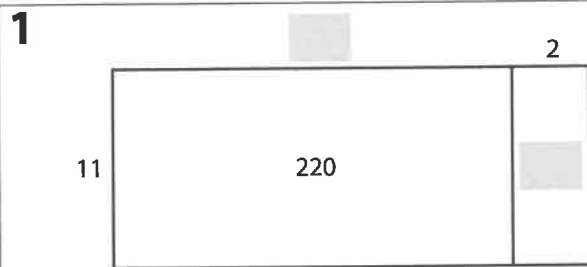
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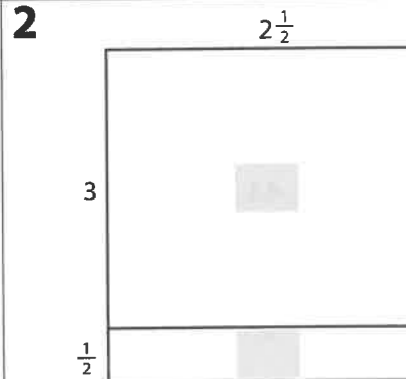
Array Work

Fill in the blanks on each array. Then write two equations—one multiplication, and one division—equation, to match the array.



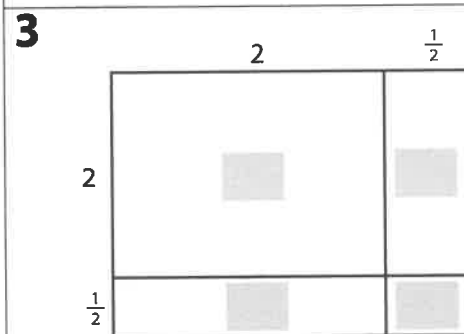
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$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$



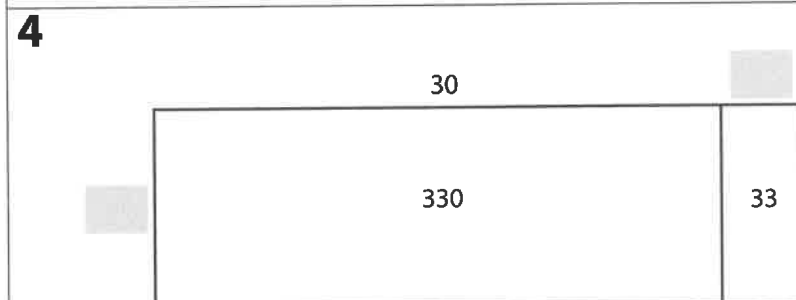
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