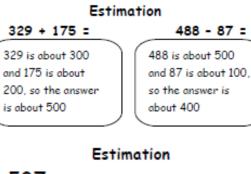
4th Grade GA Milestones Study Guide

<u>Operations & Algebraic Thinking</u> <u>20%</u>

Interpreting Multiplication and Division Multiplicative Comparison: $5 \times 8 = 40$: Sally is five years old. Her mom is eight times older. How old is Sally's Mom? Unknown Product: A blue scarf costs \$3. A red scarf costs 6 times as much. How much does the red scarf cost? $(3 \times 6 = p)$ Group Size Unknown: A book costs \$18. That is 3 times more than a DVD. How much does a DVD cost? $(18 \div p = 3 \text{ or } 3 \times p = 18)$ Number of Groups Linknown: A red scarf costs

Number of Groups Unknown: A red scarf costs \$18. A blue scarf costs \$6. How many times as much does the red scarf cost compared to the blue scarf? ($18 \div 6 = p \text{ or } 6 \times p = 18$)

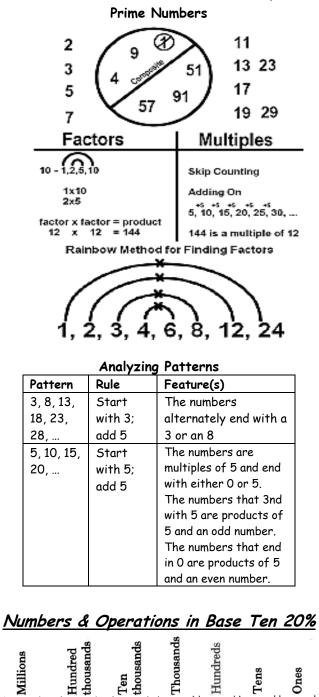


537	Estimate:			
<u>× 8</u>	500 × 8 = 4,000			

The product will be about 4,000

Interpreting Remainders

There are 128 students going on a field trip. If each bus held 30 students, how many buses are needed? ($128 \div 30 = b$; b = 4 R 8; They will need 5 buses because 4 busses would not hold all of the students)



10×100,000 10×10,000 10×1,000 10×100 10×10 10×1 1

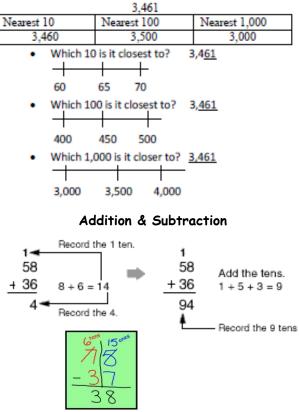
Twenty six thousand, seven hundred fifty nine and three tenths

20,000 + 6,000 + 700 + 50 + 9 + 0.3

(2×10,000) + (6×1,000) + (7×100) + (5×10) + (9×1) + (3×0.1)

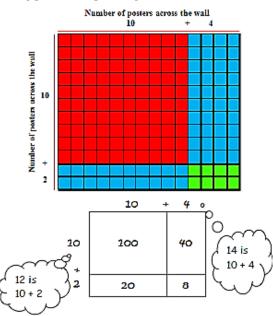
How many tens are in 750? There is a five in the tens place, but it takes 75 tens to make the number 750, so there are 75 tens in 750.

Rounding



Multiplication of Whole Numbers (2 digit by 2 digit area model)

I am placing posters on my wall in my room. I can fit 14 posters across and 12 posters down my wall. How many posters can I put on my wall?



168 posters

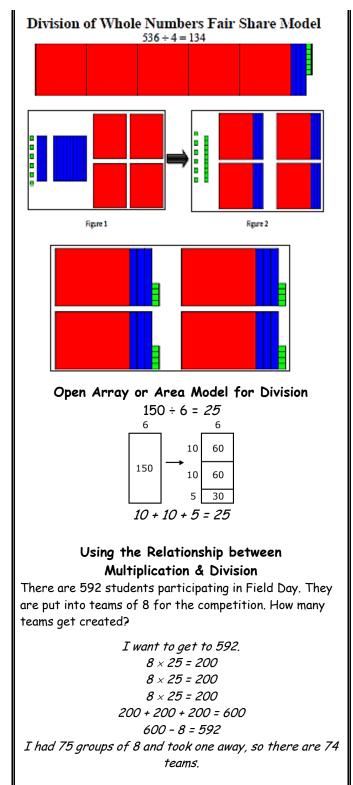
Various Strategies for Multiplication There are 25 dozen cookies in the bakery. What is the total number of cookies at the bakery?

Student 1: I broke 12 up into 10 and 2. $25 \times 10 = 250$ $25 \times 2 = 50$ 250 + 50 = 300

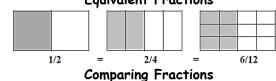
Student 2: I broke 25 into 5 groups of 5. $5 \times 12 = 60$ I have 5 groups of 5 in 25. $60 \times 5 = 300$

Student 3: I doubled 25 and cut 12 in half to get 50 \times 6.

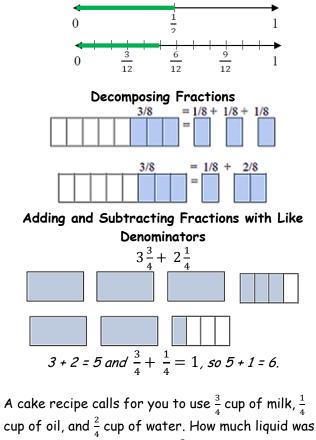
50 × 6 = 300



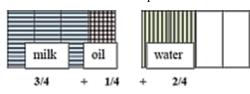


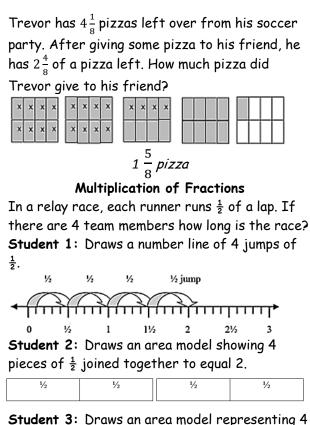


There are two cakes on the counter that are the same size. The first cake has 1/2 of it left. The second cake has 5/12 left. Which cake has more left? The second cake

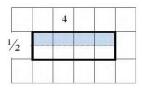


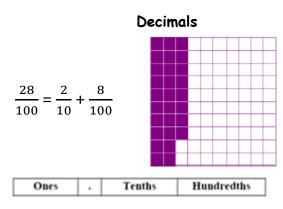
needed to make the cake? $1\frac{2}{4}$ or $1\frac{1}{2}$

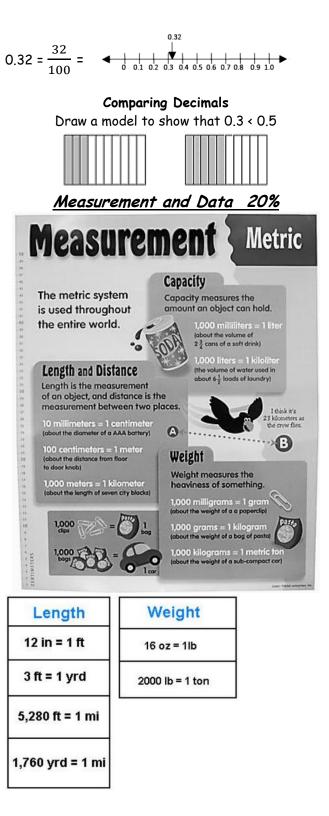




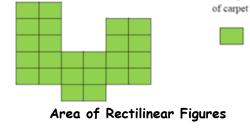
Student 3: Draws an area model representing $4 \times \frac{1}{2}$ on a grid, dividing one row into $\frac{1}{2}$ to represent the multiplier. The four halves shaded combine to make 2.

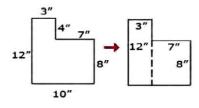






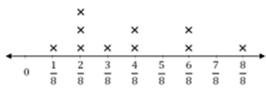
Capacity	Time		
128 fl oz = 1 gal	60 sec = 1 min		
	60 min = 1 hr		
2 pt = 1 qt 8 pt = 1 gl	24 hr = 1 day		
	7 days = 1 wk		
	52 wk = 1 yr		
	12 mon = 1 yr		
4 qt = 1 gal	365 days = 1 y		
	Perimeter		





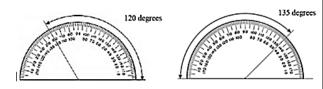
area is 12 x 3 + 8 x 7 = 92 sq inches

Line Plots Items Measured to the Nearest 1/8 inch

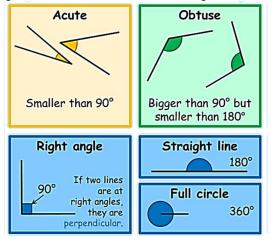


How many objects measured 1/4 inch? **3 items** 1/2 inch? **2 items** If you put all the objects together end to end what would be the total length of **all** the objects? $4\frac{2}{8}$ or $4\frac{4}{4}$

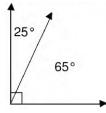
Angle Measurement



Angles are named or classified according to their size.



A lawn water sprinkler rotates 65 degrees and then pauses. It then rotates an additional 25 degrees. What is the total degree of the water sprinkler rotation? $65^{\circ} + 25^{\circ} = 90^{\circ}$



Geor	netry	in Real	Life	249	
Point magnets herdin counter kiss bothlecap pushpin thicrowove	spacebo spacebo shelf legson o door ha pencil	ar en keyboor human ndle	·equato ·equato ·Prime ·meridio ·univers	or o in o ie ?	Ray → ·flashipht ·sun rays ·projector ·arrows
builtan top of chair spike tip of a writing utensil Intersect Lines	·pièce	of paper of chalk is w blinds Perpe	· toy rail track · orbit of planets	o the o	Parallel 11
·hands of th clock ·lines of fl tile · the letter >	loor	• floor fil • cabinet • ceiling f • cinderba • grid po • window • equator prime m	es edges tiles ocks aper edges and	· rar (of in in particular in	letin board kts ilroad tracks oposite) es of paper es on paneling to charging to charging ebook paper obcok paper obcok saper obcok saper man legs

Classification of Geometric Figures

