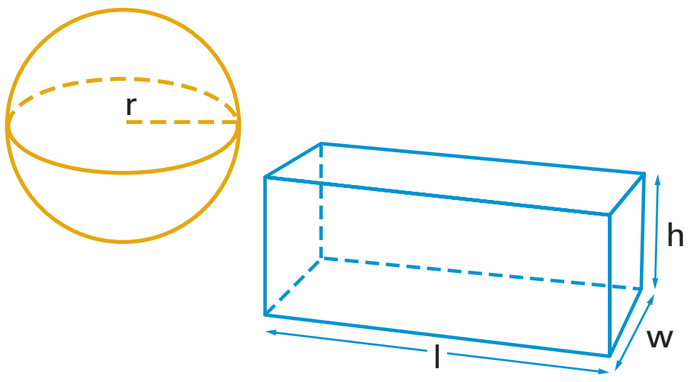
MAKING MATH REAL!

How much should you charge in order to make a profit?

Benjamin sold ice cream at the school fair. He bought a **rectangular carton of ice cream for $12.00**. The dimensions of the carton were 6 by 7 by 11 inches. He borrowed an ice-cream scoop that has a **diameter of 3 inches** to make three-scoop servings. What price should he charge for each serving?



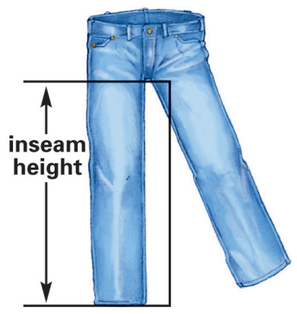
Problem from *Revisiting Numbers*: CSSM 8.G.9

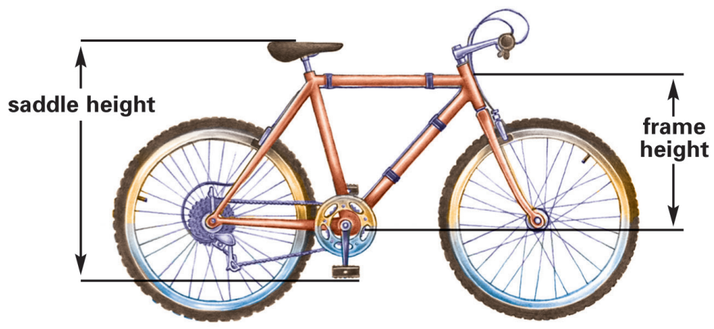
VOLUME OF CYLINDERS, CONES, AND SPHERES

How tall of a bicycle should you buy?

Bike shops use **formulas** to find **the best saddle** and frame height for each customer. One number used in these formulas is the **inseam of the cyclist** measured in **cm**. If Eddie's inseam is 75 cm, how high should his seat be?

inseam (in cm) x 1.08 = saddle height (in cm)





Model found in *Expressions and Formulas*: CSSM 6.EE.7

SOLVE EQUATIONS OF THE FORM PX=Q

Which cell phone provider should you use?

Some cell phone providers charge only for the length of a **call in minutes**. In the **ratio tables** below, you see the prices charged by different providers.

How can Valerie determine which provider offers the best **rate per minute**?

PROVIDER A

Charge	$25.00		
# of minutes	100		

PROVIDER B

Charge	$10.00		
# of minutes	25		

Model found in *Ratios and Rates*: CSSM 7.RP.2

PROPORTIONAL RELATIONSHIPS

Can you guess at all the answers on a true/false test and still pass?

Crystal wants to use a coin to **simulate** getting a question correct by guessing.

HEADS = CORRECT

TAILS = INCORRECT

How many questions out of 10 would she guess correctly using this simulation? Would the results be the same if she does the simulation more than once?

Model found in *Second Chance*: CSSM 7.SP.7

DEVELOP PROBABILITY MODELS

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