

L6-10 Test Review

L9: Prime Factorization

$$\begin{array}{r} 11 \\ 5 \overline{) 55} \\ \hline 3 \overline{) 165} \end{array} \quad (3 \cdot 5 \cdot 11)$$

$$\frac{36}{54}$$



$$\frac{\cancel{2} \cdot \cancel{2} \cdot \cancel{3} \cdot \cancel{3}}{\cancel{2} \cdot \cancel{3} \cdot \cancel{3} \cdot \cancel{3}} = \left(\frac{2}{3} \right)$$

The product of 17 and 6 is how much greater than the sum of 17 and 6

$$(17 \times 6) - (17 + 6)$$

$$102 - 23$$

$$79$$

List the single-digit factors of 132.

1, 2, 3, 4, 6

divisibility rules/tests

L6: Converting measures

Big Unit $\xrightarrow{\times}$ Small unit

Small unit $\xrightarrow{\div}$ Big Unit

\times / \div by constant

4 yd \rightarrow ? ft

constant = 3 ft

$$4 \text{ yd} \times \frac{3 \text{ ft}}{\cancel{\text{yd}}} = 12 \text{ ft}$$

$\$1 \rightarrow ?$ quarters

$$\$1 \times 4 = 4 \text{ quarters}$$

4 quarters $\rightarrow ?$ $\$$

$$4 \div 4 = \$1$$

L7 Rates

if Liam drives 55 miles per hour for 4 hours, how far did he drive?

$$55 \text{ miles per hr} \times 4 \text{ hr} =$$

220
miles

Car travels at 60mph. How long will it take to go 30 miles?

$$\frac{60 \text{ mi}}{1 \text{ hr}} = \frac{60 \text{ mi}}{60 \text{ min}}$$

↘ $\frac{1 \text{ mi}}{1 \text{ min}}$

30 min

7 kalis per min

traveled for 5 min
How many kalis?

$$7 \times 5 = \text{35 kalis}$$

L7] Measures of Central Tendency

Mean: AVERAGE = $\text{SUM} \div \# \text{ of addends}$

Median: "medium" # in the middle

5 6 7
↑
median

4 4 8 12
↓
avg.

median: 6

list # in numerical order

Mode: "most" # that occurs
most often

* no mode, 1 mode, or many modes...

range: diff. between largest and smallest #

LB) Perimeter / Area

Formulas for Rectangle

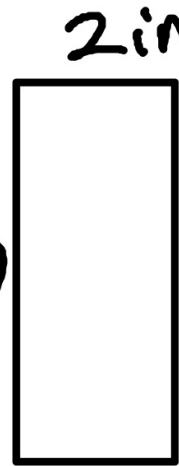
$$P = 2(l + w)$$

or

$$2l + 2w$$

$$A = 8(2) = 16 \text{ in}^2$$

$$A = lw$$



$$P = 2(8) + 2(2) = 16 + 4 = 20 \text{ in}$$

