Formula Test Review → May 24, 2013

① Mean, Median, Mode

Mean - average

10, 5, 6, 4, 5, 15, 5, 10, 15, 5

Add all #s together = 80 divide by total # of #s

$10 \overline{)80}$ (8) Mean - 8

Median - middle # - #s are in order from L. to G.

10, 5, 6, 4, 5, 15, 15

4, 5, 5, (6) 10, 15, 15 Median (6)

Mode - most frequently occurring #

~~10, 5, 6, 4, 5~~, 5, 15, 15 Mode - 15

② Area and Perimeter

$A = b \times h \div 2$

$A = 5 \times 4 \div 2$

$= 20 \div 2$

$= 10\ u^2$

$P = s + s + s$

$P = 6 + 6 + 6$

$= 17\ u$

Square

$A = s \times s$

$A = 2 \times 2$

$= 4\ cm^2$

$A = l \times w$

$A = 2 \times 2$

$= 4\ cm^2$

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

$= (2 + 2) \times 2$

$= 4 \times 2$

$= 8\ cm$

$P = 2 \times l + 2 \times w$

$P = 2 \times 2 + 2 \times 2$

$= 4 + 4$

$= 8\ cm$

$P = s + s + s + s$

$= 2 + 2 + 2 + 2$

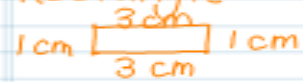
$= 8\ cm$

$P = 4 \times s$

$P = 4 \times 2$

$= 8\ cm$

Rectangle



$A = l \times w$

$= 3 \times 1$

$= 3\ cm^2$

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

$P = s + s + s + s$

$P = 2 \times l + 2 \times w$

① $P = (l + w) \times 2$

$= (3 + 1) \times 2$

$= 4 \times 2$

$= 8\ cm$

② $P = 2 \times l + 2 \times w$

$= 2 \times 3 + 2 \times 1$

$= 6 + 2$

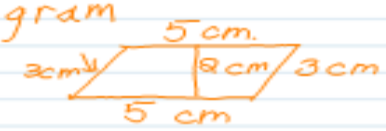
$= 8\ cm$

③ $P = s + s + s + s$

$= 3 + 1 + 3 + 1$

$= 8\ cm$

Area of a Parallelogram



$A = b \times h$
$= 5 \times 2$
$= 10 \text{ cm}^2$

$P = 5 + 5 + 5 + 5$
$= 5 + 3 + 5 + 3$
$= 16 \text{ cm}$

$P = (l + w) \times 2$
$= (5 + 3) \times 2$
$= 8 \times 2$
$= 16 \text{ cm}$

$P = 2 \times l + 2 \times w$
$= 2 \times 5 + 2 \times 3$
$= 10 + 6$
$= 16 \text{ cm}$

Surface Area - area of all of the faces added up together

Rectangular Prism
- square area formula
- rectangle area formula

Triangular Prism
- triangle area formula
- rectangle area formula

Volume - base area x height

Rectangular Prism
base - square (area) x height (rectangle)

Triangular Prism
A of triangle x height (rectangle)
$(b \times h \div 2)$

$V = (4 \times 4) \times 6$
$= 16 \times 6$
$= 96 \text{ cm}^3$

$\begin{array}{r} 3 \\ 96 \\ \times\ 6 \\ \hline 96 \end{array}$

$V = (6 \times 2 \div 2) \times 10$
$= (12 \div 2) \times 10$
$= 6 \times 10$
$= 60 \text{ cm}^3$

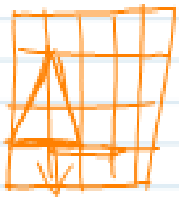
Order of Operations

BDMAS
- Brackets
- Division
- Multiplication
- Addition
- Subtraction

$(4+2) \times 6 \div 2 + 8$
$= 6 \times 6 \div 2 + 8$
$= 36 \div 2 + 8$
$= 18 + 8$
$= 26$

Transformations

Translation - slide



tracing paper (cut out)

Rotation - turn
- clockwise
- counter-clockwise

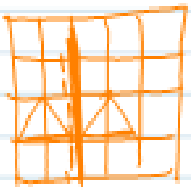
90° (1/4 turn)
180° (1/2 turn)

tracing paper (cut out)
retrace when done

Reflection - flip

horizontal ← across →
vertical | up + down

draw your reflection line
mira



The best review for this test is the previous multiple choice EQAO Questions found here:

http://www.eqao.com/Educators/Elementary/036/BookletsandGuides.aspx?Lang=E&gr=036&yr=12