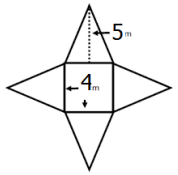
July 2020 Entering 7th Grade – Irwin Altman MS 172

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Use your Math Journal to help you. SHOW ALL WORK ON LOOSE LEAF. LABEL EACH QUESTION WITH THE DATE. **NO CALCULATOR.**			**1** Find the volume of a Rectangular prism when L=3m, w= 4.5m, h=2 ¼ m	**2** Solve for x: a) 8x=36 b) 5.2 + x = 8.9	**3** Graph the inequality: a) X> -2 b) X ≤ 8	**4** Solve the proportion: a) $\frac{4}{9} = \frac{10}{x}$ b) $\frac{15}{21} = \frac{20}{y}$
5 Simplify: a) 8 (9h - 6) b) 4(5w+6) – 12w	**6** Solve for x: a) ½ x= 20 b) X- 2 ½ = 3 ¼	**7** Solve the proportion: a) $\frac{26}{w} = \frac{39}{9}$ b) $\frac{16}{120} = \frac{k}{15}$	**8** Find the mean: 93, 70, 90, 90 ,68, 75	**9** Write an equation: For every 2 apples there are 6 bananas	**10** Write an expression: a) 4 less than twice a number b) A number squared added to 16	**11** Graph the inequality: a) X+5 ≥ 15 b) 2x < 18
12 Simplify: $(1\frac{1}{2} + 3\frac{1}{4}) \div 1\frac{1}{3}$	**13** Write an equation: X 2 4 6 8 Y 8 16 24 32	**14** Write an expression: You bought four sandwiches that cost $2.50 each and two drinks that cost d dollars each.	**15** Find the surface area of a rectangular prism if the length is 12cm, the width is 8 cm and the height is 2.5 cm.	**16** Find the median of each: a) 0,2,5,7,10,13,39,17, 12,10,5,4,1 b) 4,8,4,6,0,1,7,7,3,4,4	**17** Simplify: a) 4m (6y + 2k) b) 8 (9d – 4) -12d	**18** Combine like terms a) k+12y+5k-10y b) $3x^2+8x - x^2 - 6x$ c) 8h+7h-7h+8h
19 Find the length of a rectangular prism if the volume is 340.2cm^3, the width is 12cm, and the height is 6.3 cm.	**20** Graph the inequality: a) 4x>18 b) X-8 ≥ 24	**21** Solve the proportion: a) $\frac{21}{27} = \frac{x}{18}$ b) $\frac{h}{108} = \frac{7}{18}$	**22** Solve for x: a) $\frac{X}{2} = 2.5$ b) $X + 1\frac{1}{3} = 2\frac{5}{6}$	**23** Write an equation: For every 2 snickers bars, you pay $2.20	**24** Simplify: a) 48 x 2 ÷ 4 b) 96 ÷ 2^3 x 2 c) (18-9+6) ÷3	**25** Write an equation: You pay $15.50 for 2 sandwiches that cost c dollars each and 3 drinks that cost d dollars each.
26 Combine like terms a) h+h+h+h-h-h b) 3g+5g-2k-7y *c) 8v-6j-10v+8j	**27** Solve for x: a) 5x=71 b) $\frac{x}{3} = 12$	**28** Find the surface area: 	**29** Write an expression: A number decreased by the product of 8 and the same number.	**30** Simplify. a) $5^2 - 2^3 + 3^2$ b) $(12 - 3)^2 \div 3$	**31** Find the mean, median, mode, range, outlier: 100, 87, 70, 93, 88, 90, 20, 100	**AUGUST 1** Write an equation: For every 8 markers there are 2 glue sticks.

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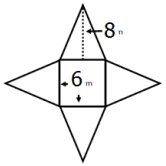
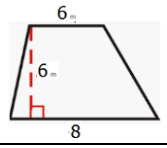
2 Write an equation: You paid $14.75 for 4 ice cream cones that cost 2.50 each and two drumsticks that were d dollars each.	**3** If 8 peppers cost $10.32, how much will 6 peppers cost?	**4** Find the range of each: a) 9,7,8,5,8,7 b) 0,0,0,1,1,6,1,0,4	**5** Simplify: a) 5(8j+3) + 3(2j+4) b) 16k(2m+5)	**6** Simplify: a) 75 – |-50|+15 b) |- 8|+ |-12|	**7** Factor completely: a) 24k+18 b) ab+ac c) 32m-16m	**8** Find the height of a triangle A=24 in^2 b= 8 in
9 For every 5 boys, there are 3 girls. If there are 60 students, how many boys are there?	**10** Solve the proportion: a) $\frac{4}{6.5} = \frac{k}{10.4}$ b) $\frac{1.8}{3.6} = \frac{20}{y}$	**11** Write an expression: 16 less than the difference of double a number and 5	**12** Find the mean and median: a) 65,61,62,66,71 b) 60,80,75,65	**13** Find the surface area: 	**14** Complete the ratio table: X 6 8 18 Y 9 15	**15** Factor completely: a) 25 – 75k b) 35j+49g c) 18n – 27
16 Find the LCM and GCF: a) 24,32 b) 12,18	**17** Find the mean, median, mode, range, outlier: 84,75,90,86,78,83, 8 ,84,91,81	**18** Which is the better buy? By how much? 6 lollipops for $1.44 5 lollipops for $1.30	**19** Factor completely: a) abc + agh b) 12k+12m c) 72p-96	**20** A shirt is on sale for 20% off. If the sale price is $29.20, what is the original cost of the shirt?	**21** Simplify: $(8\frac{4}{5} \div 2\frac{2}{5}) + 1\frac{1}{3}$	**22** Write $\frac{7}{8}$ as a percent. Write $\frac{5}{16}$ as a decimal
23 For every 8 daisies there are 4 tulips. If there are 20 more daisies, how many tulips are there?	**24** Solve for x: a) 1.2x=0.36 b) 1.8 – y = 0.15	**25** Find the LCM and GCF: a) 25, 75 b) 20, 70	**26** Graph the inequality: a) -3 < m b) X + 8 ≥ 26	**27** What is the distance between: a) H(4,5) J(-6,5) b) M(-7,-8) G(-7,-2)	**28** Find the area: 	**29** Calculate the final cost: Original price $125 Discount 25% Tax 6.5%
30 Draw a model for 4 ½ ÷ 1 ½	**31** Write an expression: The product of twelve and a number squared subtracted from that number cubed.					Use your Math Journal to help you. SHOW ALL WORK ON LOOSE LEAF. LABEL EACH QUESTION WITH THE DATE. **NO CALCULATOR.**