6th Grade Assignment – Week #32

Individual Work:

- Do as much as you can with Sheet #27.
- Pat yourself on the back for finishing the 6th grade workbook!

Group Assignments: (for either Tuesday or Thursday.)

• Stick Puzzles

With each puzzle, every stick must be part of a square. No two sticks may be placed on top of each other or side by side.

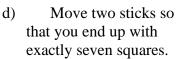
a) Move three sticks so that you end up with exactly five squares.

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b) Move three sticks so that you end up with exactly four squares.

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c) Move three sticks so that you end up with exactly three squares.



1	
- 1	
- 2	
- 1	
- 1	

٠	Connect the Dots Square.	•	•	•
	Without lifting your pencil off the page, draw four	_	•	
	straight lines (using the drawing on the right) such	•	•	•
	that each of the nine dots has a line passing through it.	•	•	•
	You may not retrace a portion of a line.			

- Siblings.
 - a) Mrs. Harrison has five daughters. Each of these daughters has two brothers. How many children does Mrs. Harrison have?
 - b) Ian and Sarah are siblings. Ian has twice as many sisters as brothers, and Sarah has twice as many brothers as sisters. How many children are in the family?
- Missing-Digit Multiplication. Fill in the missing digits (indicated by "?")

	??3
	x 2??
	?1?7
	?7?0
+	?14?00
	?25???

6th Grade Math – Sheet #27

Do it in your head.1) $25 \cdot 4$ 2) $1.5 \cdot 4$ 3) $0.16 \cdot 3$ 4) $130 \cdot 4$ 5) 5^4 6) 20^5 7) $(0.4)^3$	 20) Convert 6% to a fraction. Percents. 21) What is 83¹/₃% of 120? 22) What is 2% of 510? 	Rates. 26) The Skip bus is scheduled to leave Lee Hill and Broadway at 3:27 and to arrive at the University, 3 ¹ / ₂ miles away, at 3:47. What is the bus's average speed?
8) 7000^2 9) $7.362 \cdot 100$ 10) $1.1 \cdot 8.8$ 11) $900 \div 4$ 12) $8 \div 999$ 13) $4800 \div 5400$ 14) $\sqrt{\frac{49}{810000}}$ 15) $\frac{3}{11} \cdot \frac{4}{11}$ 16) $\frac{3}{11} \div \frac{4}{11}$	 23) 3500 is what percent of 5600? 24) A pair of skis at a sports store is normally priced at \$475. What is the new discounted price if the store is having a 40%-off sale? 	27) The Thalys train is scheduled to depart from Brussels Midi at 7:11 and then to arrive at Paris Nord at 8:35. What is the average speed for the trip given that the distance between the two stations is 210 miles?
17) $\frac{3}{11} + \frac{4}{11}$ 18) $\frac{3}{11} + \frac{3}{8}$ 19) Convert to a percent. a) $\frac{3}{5}$ b) $\frac{1}{4}$ c) $\frac{5}{9}$ d) $\frac{1}{8}$	25) Unit Cost. A hotel room costs \$130 for four days. What does it cost for a full week?	

