This review set is a selection of problems, but is not representative of everything that will be on the final exam. It is best to review ALL SECTIONS of the text to prepare for the final.

The final exam has 10 multiple-choice questions and 8 open-answer questions.

1.2

My sister can walk from school to home in 40 minutes. I can walk from school to home in 30

minutes. Today I stayed for some extra help and my sister was already  of the way home when

I started. If I walk at my usual speed, can I catch my sister before she gets home?



1.4

Cassie spent $153 on three items. The purse cost half as much as the pair of shoes. The jacket cost three times as much as the shoes. Make a diagram to represent this situation. How much did she spend on each item?

2.4

Use base pieces and the take-away method to show this arithmetic work: 

Clearly show any necessary decomposing.

Drawing of answer: Number answer: \_\_\_\_\_\_\_\_\_\_

3.1

The Candee Shoppe sells chocolate-covered pretzels, nuts, and raisins. A customer comes in and

buys some of all three. The amount of raisins is ½ lb less than the amount of pretzels. The amount

of nuts is 2 oz more than the amount of pretzels. How does the amount of nuts compare to the

amount of raisins?



3.5

Determine the division concept used in this word problem.

*Arianna wants to show her friends how to make a necklace. She has 30 beads and each*

*necklace requires 5 beads. How many necklaces can her friends make?*

Division concept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write a new word problem using the same numbers but a different division concept.

Division concept: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4.1

Which of the following computations might have led to the block work pictured here?





5.4

Use scientific notation to do the work and express the answers for:





6.3

Write  as a decimal and 6.5% as a fraction.



7.1

You have a recipe that gives quarts of punch, and an insulated jug that holds gallons. If you

make 3 recipes of the punch, will it all fit in the jug? If so, how much more could fit in the jug?

If not, how much punch will be left over?



7.3

A crocheted Christmas ornament requires  yards of yarn. The ball of yarn has yards.

How many complete ornaments can be made? ­­­­\_\_\_\_\_\_\_\_\_\_

Show your work here:

How much yarn is left over? \_\_\_\_\_\_\_\_\_ yards

8.2

Tim worked 30 hours last week, which was  times as many hours as Robert worked. How many hours did Robert work?



9.2

Two workers working 9 hours made 243 parts. Worker A makes 13 parts in one hour.

If the workers work at a steady rate throughout the day, who is more productive, Worker

or Worker B? Use word labels to clarify each step of your work.

circle the answer: **A B**

10.4

Identify which of the following illustrates the commutative property of addition.





10.6

Consider clock arithmetic using a clock with four numbers: 0, 1, 2, and 3. Complete each table.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 |
| 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 2 | 3 |
| 2 | 0 |  |  |  |
| 3 | 0 |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| + | 0 | 1 | 2 | 3 |
| 0 | 0 | 1 | 2 | 3 |
| 1 | 1 | 2 |  |  |
| 2 | 2 |  |  |  |
| 3 | 3 |  |  |  |

Does 3 have an additive inverse? Circle one: yes no

If yes, what is it? If not, how do you know?

Does 3 have a multiplicative inverse? Circle one: yes no

If yes, what is it? If not, how do you know?

11.3

Find all prime numbers between 20 and 40.

