**LESSON 20—NOTES**

**REASONABLENESS**

CUT OFF TITLE AND ATTACH TO LESSON FROM TAKS MASTER PG. 24 &25.

**LESSON 20—NOTES—STUDENT COPY**

**REASONABLENESS**

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Class\_\_\_\_\_\_**

**LESSON 20: REASONABLENESS**

**NWNC!! write the letter and answer.**

1. The drama teacher has 8 costume patterns that use \_\_\_\_\_\_\_\_\_\_\_\_

 from 2.25 to 3.5 meters of material each. Which

 could be the total amount of material the teacher

 uses to make all 8 costumes?

A. 10m B. 24m C. 38m D. 40m

2. Oranges were on sale at 3 pounds for $1.29. A \_\_\_\_\_\_\_\_\_\_\_\_

 reasonable amount to pay for 10 pounds is………

A. $4.30 B. $8.00 C. $9.50 D. $12.50

3. A delivery service charges from $14.95 to $18.95 to \_\_\_\_\_\_\_\_\_\_\_\_

 deliver a box of office supplies. Which could be the

 total amount a company might pay to have 21 boxes

 of office supplies delivered?

A. more than $600 B. between $500 & $600

 C. between $300 & $500 D. less than $300

4. Jason made beaded bracelets to sell at the school \_\_\_\_\_\_\_\_\_\_\_\_

 bazaar. He used 12 to 18 inches of yarn in each

 bracelet. A reasonable total amount of yarn used

 to make 25 bracelets is……….

A. 250in. B. 375in. C. 475in. D. 600in.

5. Which expression is used to find the relationship between N, the \_\_\_\_\_\_\_\_\_\_\_\_

 numbers position and its value?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **N** | 1 | 2 | 3 | 4 | 5 |
| **Value** | 3 | 5 | 7 | 9 | 11 |

A. 3n B. 3n – 1 C. 3n + 1 D. 2n + 1

6. In the following sequence of numbers: 0, 3, 8, 15, 24……. \_\_\_\_\_\_\_\_\_\_\_\_

 Which expression can be used to find the value of the Nth term

 in the sequence? (draw a table.)

 A. n2 – 1 B. n2 + 1 C. 3n - 1 D. 5n – 1

For each pair of similar figures, find the value of ***x***.

7. 8.

 36in

 72in 30m

 25in

 x

 x

 25m 15m

 \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Anita’s garden is rectangular and has a length \_\_\_\_\_\_\_\_\_\_\_\_

 of 10 feet and a width of 12 feet. If George

 builds a similar garden and the width is 15 feet,

how long would his garden be?

**Solve:**

10. Jerry leaves a $2.00 tip for his $25.00 dinner. \_\_\_\_\_\_\_\_\_\_\_\_

 What percent of the dinner was the tip?

11. The tax for a CD was $0.93. The tax rate was \_\_\_\_\_\_\_\_\_\_\_\_

 6%. How much was the CD before tax?

12. Couch City was having a 20% off sale. A sofa \_\_\_\_\_\_\_\_\_\_\_\_

 was originally priced at $1,999. How much (discount)

 money was the discount? What was the final \_\_\_\_\_\_\_\_\_\_\_\_

 cost of the sofa? (final cost)

13. ½ + ¾ = \_\_\_\_\_\_ 14. $^{4}/\_{5}$ – $^{3}/\_{5}$ = \_\_\_\_\_\_\_ 15. 1.05 + 3.166 = \_\_\_\_\_\_

16. order LEAST to GREATEST: 0.8 , $\frac{3}{4}$ , $\frac{2}{3}$ , 0.71 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. order GREATEST to LEAST: 12.3 , 1.23 , 0.123 , 123 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**There were 8 green bugs, 20 yellow bugs, and 28 brown bugs**.

18. What was the ratio yellow to green bugs? \_\_\_\_\_\_\_\_\_\_\_ (write in lowest terms)

19. What was the ratio of brown to total bugs? \_\_\_\_\_\_\_\_\_\_\_\_ (write in lowest terms)

20. What was the ratio of total bugs to yellow? \_\_\_\_\_\_\_\_\_\_\_\_ (write in lowest terms)