7th Grade Math

Review Packet

April 28th- May 4th

Hey guys! I hope everyone is doing well! I miss you all so much! This is a review test that we would have done to review for our state test, so these are skills that you will need for 8th grade! There is an answer key on the last page, so you will be able to check your work. If you have any questions, please email me at stevensk@stippah.k12.ms.us. Thinking of you all! Stay safe!

Love,

Ms. Stevens

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Review Test #2

*Proportions & Similar Figures*

1. $\frac{5}{6} = \frac{x}{12}$ x = \_\_\_\_\_\_\_

2. $\frac{x}{9} = \frac{2}{18}$ x = \_\_\_\_\_\_\_

Set up a proportion to solve for x for each of the following sets of similar figures.

3.

3

9

x

18

x = \_\_\_\_\_\_\_

8

8

4.

4

 x = \_\_\_\_\_\_\_

x

*Percents, Decimals, & Fractions*

**Write each fraction as a percent.**

5. $\frac{7}{25}$ \_\_\_\_\_\_\_\_\_\_\_\_ 6. $\frac{1}{5}$ \_\_\_\_\_\_\_\_\_\_\_\_

**Write each decimal as a percent.**

7. 0.64 = \_\_\_\_\_\_\_\_\_\_ 8. 0.32 = \_\_\_\_\_\_\_\_\_\_\_\_

9. 0.10 = \_\_\_\_\_\_\_\_\_\_ 10. 0.08 = \_\_\_\_\_\_\_\_\_\_\_\_

**Write each percent as a fraction in simplest form.**

11. 15% = $\frac{ }{100}$ = $\frac{ }{} $ 12. 5% = $\frac{ }{100}$ = $\frac{ }{} $

*Finding a Percent of a Number*

Find the percent of each number listed.

13. 45% of 32 = \_\_\_\_\_\_\_\_\_ 14. 7% of 350 = \_\_\_\_\_\_\_\_\_\_

15. 41% of 100 = \_\_\_\_\_\_\_\_\_ 16. 2% of 3,500 = \_\_\_\_\_\_\_\_\_\_

*Identifying & Classifying Angles*

**Write if the angle is acute, obtuse, right, or straight.**

< A = 104°

17. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 18. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 < C = 90°

19. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 20. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write if the angles are vertical or adjacent.**

2

1

 21. **<** 1 and < 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3

4

 22. **<** 1 and < 4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 23. **<** 2 and < 3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Triangles*

**Classify each triangle as equilateral, isosceles, or scalene.**

**Classify each triangle as acute, obtuse, or right. Then, find x.**

20°

 24. E/I/S: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14°

x°

 25. A/O/R: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 26. x = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Polygons*

**Name each of the following polygons according to their number of sides.**

27. 3 sides: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 28. 7 sides: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 29. 5 sides: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 30. 9 sides: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Congruent Figures*

**Determine the correct congruence statements for each pair of shapes.**

B

G

F

A

C

H

I

J

D

E

31. $\overbar{AB}≅$ \_\_\_\_\_\_\_\_\_ 32. $<H ≅ \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$

33. $\overbar{CD}≅$ \_\_\_\_\_\_\_\_\_ 34. $<J ≅ \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$

*Area & Circumference of a Circle*

**Find the circumference of each circle. Include units! C= πd (3.14 times the diameter)**

**Find the area of each circle. Include units! C= πr² (3.14 times the radius times the radius again) \*\*radius is half of the diameter\*\***

36.

35.

**

37.

C = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ C = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ C = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Key:

1. 12
2. 1
3. 6
4. 4
5. 28%
6. 20%
7. 64%
8. 32%
9. 10%
10. 8%
11. 15/100 = 3/20
12. 5/100 = 1/20
13. 14.4
14. 24.5
15. 41
16. 70
17. Acute
18. Obtuse
19. Right
20. Straight
21. Vertical
22. Adjacent
23. Adjacent
24. Scalene
25. Obtuse
26. 146
27. Triangle
28. Heptagon
29. Pentagon
30. Nonagon
31. FG
32. C
33. HI
34. E
35. C= 17.27 cm, A= 23.75 cm²
36. C= 75.36 cm, A= 452.16 cm²
37. C= 41.448 cm, A= 136.78 cm²