

## MAT 0018 Decimal Review

- Write as a mixed number or fraction:
  - .7
  - 6.4
- Compare and choose the correct sign:  $>$ ,  $<$ ,  $=$ 
  - 0.1    0.05
  - $\frac{3}{7}$     0.429
- Round to the nearest hundredth: 0.2345
- $-6.75 - 4.76$
- $3.21 - 15.4$
- $7.1 + 12.4 + .2 + 5$
- $(-13.4)(5.26)$
- $(.00251)(1000)$
- $3.312 \div 0.92$
- $24 \div 0.03$
- Divide 0.549 by 0.023 and round quotient to nearest hundredth.
- Estimate to nearest whole number:  $7.3 - 3.8$
- $(8.2)(100) - (8.2)(10)$
- Evaluate  $(0.4)^2$
- $\frac{0.707 - 3.19}{13}$
- Evaluate  $4x - y$      $x = 0.3$      $y = -2.4$

17. Change to decimals:

a)  $\frac{2}{5}$

b)  $1\frac{4}{10}$

c)  $\frac{1}{3}$

18. Solve:  $0.4x = 50$

19. Solve:  $7x - 9.64 = 5x + 2.32$

20. Solve:  $5(x + 2.3) = 19.5$

21. Solve:  $1.5x + 2 - 1.2x = 12.2$

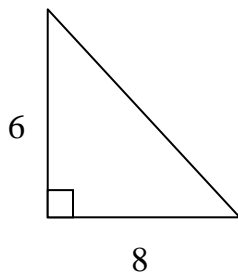
22. Solve:  $1.2 + 0.3x = 0.9$

23.  $\sqrt{49}$

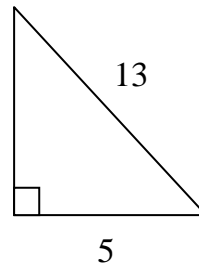
24. Approximate  $\sqrt{82}$

25. Find the length of the missing side:

a)



b)



26. Find the circumference of a circle with a radius of 5 inches.

27. Find the area of a triangle with base = 2.2 ft and height 6 ft.

## MAT 0018 Practice Test Chapter 5 Answers

1. a)  $\frac{7}{10}$     b)  $6\frac{4}{10} = 6\frac{2}{5}$

2. a)  $>$     b)  $<$

3. 0.23

4. -11.51

5. -12.19

6. 24.7

7. -70.484

8. 2.51

9. 3.6

10. 800

11. 23.87

12. 3

13. 738

14. 0.16

15. -0.191

16. 3.6

17. a) .4    b) 1.4    c)  $\overline{.3}$

18. 125

19. 5.98

20. 1.6

21. 34

22. -1

23. 7

24.  $\approx 9$

25. a) 10    b) 12

26.  $C = 2\pi r = 2(3.14)(5 \text{ in}) \approx 31.4 \text{ in}$

27.  $A = \frac{1}{2} \cdot \text{base} \cdot \text{height}$   
 $= (.5)(2.2 \text{ ft})(6 \text{ ft}) = 6.6 \text{ ft}^2$  (or square ft)