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Printable Worksheets
8th Grade

Study Island®

Angles in Triangles

Find the measure of the unknown angle in each of the triangles.

1. If m∠1 = 40° and m∠2 = 80°, what is m∠3?

2. If m∠1 = 50° and m∠2 = 75°, what is m∠3?

3. If m∠1 = 50° and m∠2 = 80°, what is m∠3?

4. If the complement of ∠1 is 80° and m∠2 = 80°, what is m∠3?

5. If the supplement of ∠2 is 110° and the complement of ∠3 is 60°, what is m∠1?

6. If the supplement of ∠1 is 80° and m∠2 = 70°, what is m∠3?

7. If the supplement of ∠1 = 40° and m∠2 = 30°, what is m∠3?

8. If the complement of ∠1 = 60° and m∠2 = 80°, what is m∠3?

9. If m∠1 = 80° and the complement of m∠2 = 70°, what is m∠3?

10. If the supplement of ∠2 is 70° and m∠3 = 30°, what is m∠1?

Answer Key

1. [180° - (80° + 40°) = **60°**]

2. [180° - (50° + 75°) = **55°**]

3. [180° - (50° + 80°) = **50°**]

4. [m∠1 = 90° - 80° = 10°; m∠3 = 180° - (10° + 80°) = **90°**]

5. [m∠2 = 180° - 110° = 70°; m∠3 = 90° - 60° = 30°; m∠1 = 180° - (70° + 30°) = **80°**]

6. [m∠1 = 180° - 80° = 100°; m∠3 = 180° - (100° + 70°) = **10°**]

7. [m∠1 = 180° - 40° = 140°; m∠3 = 180° - (140° + 30°) = **10°**]

8. [m∠1 = 90° - 60° = 30°; m∠3 = 180° - (30° + 80°) = **70°**]

9. [m∠2 = 90° - 70° = 20°; m∠3 = 180° - (80° + 20°) = **80°**]

10. [m∠2 = 180° - 70° = 110°; m∠1 = 180° - (110° + 30°) = **40°**]

Name: _____

Exponents, Squares & Cubes

Write an equivalent expression for each of these expressions.

1. $2x + 4y + 7x^2 - 6y$ _____
2. $2x^2(4x^2 + 2x)$ _____
3. $x(x^2 + x - 1) - x^2$ _____
4. $y^2(x^2 + 1)$ _____
5. $x^2(x^2 + 1)$ _____

Find the square root of each of the following.

6. 4 _____
7. 25 _____
8. 81 _____
9. 144 _____
10. 196 _____
11. 625 _____
12. 10,000 _____
13. 1 _____
14. 56.25 _____
15. 100 _____

Find the cube root of each of the following.

16. 8 _____
17. 125 _____
18. 64 _____
19. 343 _____
20. 216 _____
21. 3.375 _____
22. 1,000 _____
23. 1,000,000 _____

Answer Key

1. $7x^2 + 2x - 2y$

2. $8x^4 + 4x^3$

3. $x^3 - 1$

4. $x^2y^2 + 1$

5. $x^4 + x^2$

6. 2

7. 5

8. 9

9. 12

10. 14

11. 25

12. 100

13. 1

14. 7.5

15. 10

16. 2

17. 5

18. 4

19. 7

20. 6

21. 1.5

22. 10

23. 100

Spelling

Circle the letter of the correct answer.

1. Which of the following words is spelled correctly?
   A. Golden   B. Damppen   C. Followwer   D. Paintte

2. Which of the following words is spelled correctly?
   A. Comfortable   B. Succesful   C. Believeable   D. Saden

3. Which of the following words is spelled correctly?
   A. Shortten   B. Beleiveed   C. Shopper   D. Invadder

4. Which of the following words is spelled correctly?
   A. Woodden   B. Likeable   C. Ruler   D. Looseen

5. Which of the following words is spelled correctly?
   A. Faten   B. Golfer   C. Believeable   D. Succesful

6. Which of the following words is spelled correctly?
   A. Collapseible   B. Trapper   C. Rober   D. Whiteen

7. Which of the following words is spelled correctly?
   A. Carfull   B. Peacful   C. Reversible   D. Pleasureable

8. Which of the following words is spelled correctly?
   A. Beautiful   B. Guilless   C. Exciteable   D. Clearley

9. Which of the following words is spelled correctly?
   A. Agreable   B. Allowwance   C. Assistent   D. Carelessness

10. Which of the following words is spelled correctly?
    A. Sunny   B. Guned   C. Stoping   D. Steped

Answer Key

1. A

2. A

3. C

4. C

5. B

6. B

7. C

8. A

9. D

10. A

Multiple-Meaning Words

Read the sentence. Pick the choice that uses the bold word in the same way as the original sentence. Circle the letter of the best answer.

1. Lack of money **drove** Sally to sell her house.
   A. The blizzard drove Debbie to decide to stay home from work.
   B. Dad drove us to the mall, but Mom said she would take us home.
   C. The family drove three hours to see the ocean.
   D. My older sister drove me to the movies.

2. Matt **stroked** his dog's back to calm him down.
   A. The stroke left her paralyzed on the right side of her body.
   B. The man had a stroke and was not able to walk.
   C. The girl stroked her doll's hair.
   D. A stroke affects a person's brain functions.

3. Frank gave his wife **roses** for their anniversary.
   A. We watched as the balloons rose to the ceiling.
   B. Janet planted a rose garden.
   C. The sun rose slowly in the sky.
   D. The airplane rose off into the distance.

4. He tried with his **might** to lift the heavy desk, but it wouldn't budge.
   A. It took all her might to pry open the stuck window.
   B. An accident might happen if you're not paying attention to what you're doing.
   C. According to the weatherman, it might rain tomorrow.
   D. My mom said that she might take us to the movies this weekend.

5. The duck stuck his **bill** in the water.
   A. Our phone bill was due on the last day of the month.
   B. The eagle had a fish in its bill.
   C. Grandpa paid the bill at the restaurant.
   D. We were given a bill for our hotel room during our vacation.

6. The rain **pounded** on the ground.
    A. The baker pounded the dough for the bread.
    B. We need a pound of turkey to make the sandwiches.
    C. Kathy bought a pound of chocolate.
    D. I sent her a pound of fudge for her birthday.

7. We picked strawberries at the strawberry **patch**.
    A. The patch covered his knee.
    B. Grandma sewed a patch on my backpack.
    C. The farmer tended his pumpkin patch.
    D. We taped a patch over the hole in the cushion.

8. I placed the envelope in the mail **slot**.
    A. The employer was able to fill the slot in the accounting department.
    B. Who in the department is qualified to fill the administrative slot?
    C. Put the quarter in the slot of the vending machine.
    D. There is an open slot on the baseball team for next year.

9. The maid had to **strip** the beds when the guests left the room.
    A. I need to cut a strip of paper for my project.
    B. My mom told me to strip the wrapping off of the package.
    C. I needed only one strip of beef to give to the puppy.
    D. There is only a small strip of grass left in the yard.

10. Old cars were started by a **crank** in the front of the vehicle.
    A. When Jill turned the crank, the jack jumped out of the box.
    B. Mr. Wilson is a crank who likes to yell at his kids in the yard.
    C. My brother is a real crank when he doesn't get enough sleep.
    D. I can be the biggest crank when I am hungry.

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Answer Key

1. A

2. C

3. B

4. A

5. B

6. A

7. C

8. C

9. B

10. A

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