Name: _____   Date _____

Topic: <u>Pythagorean Theorem Word Problems - Worksheet 1</u>

1. Officer Ron drove his police car 30 km east and then 250 km south. How far is he from his starting point?

2. Using the Pythagorean Theorem, find the area of an equilateral triangle whose side measures 7 units. Find the area to the nearest tenth of a square unit.

3. If the legs of an isosceles right triangle are 10 inches long, approximate the length of the hypotenuse to the nearest whole number

4. Tom rides his bike 35km north and then 450 km east. How far is he from his starting point?

5. If a leg of a triangle is 30 ft long, and another leg is 58 ft long, what is the length of the hypotenuse?

6. A pool is in the shape of a square of sides 57 feet. What is its hypotenuse?

7. If a side of a triangle is 20 ft long, and another side is 43 ft long, what is the length of the hypotenuse?

8. Town A is 14 miles from town B, and 20 miles from town C. Town A, B and C are forming a right triangle at A. A road connects towns B and C directly. Find the length of this road.

9. Find the height of an equilateral triangle whose side measures 56 cm.

10. A box is in the shape of a square of sides 32 cm. What is its hypotenuse?

Name: _____   Date _____

Topic: <u>Pythagorean Theorem Word Problems - Worksheet 2</u>

1. Don drives his car 25 km east and then 312 km south. How far is he from his starting point?

2. Using the Pythagorean Theorem, find the area of an equilateral triangle whose side measures 8 units. Find the area to the *nearest tenth* of a square unit.

3. If the legs of an isosceles right triangle are 15 inches long, approximate the length of the hypotenuse to the nearest whole number

4. Jack rides his bike 15 km north and then 150 km east. How far is he from his starting point?

5. If a leg of a triangle is 29 ft long, and another leg is 68 ft long, what is the length of the hypotenuse?

6. A pool is in the shape of a square of sides 68 feet. What is its hypotenuse?

7. If a side of a triangle is 30 ft long, and another side is 56 ft long, what is the length of the hypotenuse?

8. Town A is 20 miles from town B, and 17 miles from town C. Town A, B and C are forming a right triangle at A. A road connects towns B and C directly. Find the length of this road.

9. Find the height of an equilateral triangle whose side measures 14 cm.

10. A box is in the shape of a square of sides 24 cm. What is its hypotenuse?

Name: _____   Date _____

Topic: <u>Pythagorean Theorem Word Problems - Worksheet 3</u>

1. John drives his bike 27 km east and then 298 km south. How far is he from his starting point?

2. Using the Pythagorean Theorem, find the area of an equilateral triangle whose side measures 9 units. Find the area to the *nearest tenth* of a square unit.

3. If the legs of an isosceles right triangle are 13 inches long, approximate the length of the hypotenuse to the nearest whole number

4. Tommy rides his bike 23 km north and then 145 km east. How far is he from his starting point?

5. If a leg of a triangle is 35 ft long, and another leg is 74 ft long, what is the length of the hypotenuse?

6. A pool is in the shape of a square of sides 84 feet. What is its hypotenuse?

7. If a side of a triangle is 20 ft long, and another side is 44 ft long, what is the length of the hypotenuse?

8. Town A is 25 miles from town B, and 28 miles from town C. Town A, B and C are forming a right triangle at A. A road connects towns B and C directly. Find the length of this road.

9. Find the height of an equilateral triangle whose side measures 34 cm.

10. A box is in the shape of a square of sides 56 cm. What is its hypotenuse?

Name: _____   Date _____

Topic: <u>Pythagorean Theorem Word Problems - Worksheet 4</u>

1. Johnson drives his bike 34 km east and then 195 km south. How far is he from his starting point?

2. Using the Pythagorean Theorem, find the area of an equilateral triangle whose side measures 12 units. Find the area to the *nearest tenth* of a square unit.

3. If the legs of an isosceles right triangle are 21 inches long, approximate the length of the hypotenuse to the nearest whole number

4. Tom rides his bike 36 km north and then 255 km east. How far is he from his starting point?

5. If a leg of a triangle is 42 ft long, and another leg is 98 ft long, what is the length of the hypotenuse?

6. A pool is in the shape of a square of sides 71 feet. What is its hypotenuse?

7. If a side of a triangle is 31 ft long, and another side is 55 ft long, what is the length of the hypotenuse?

8. Town A is 28 miles from town B, and 47 miles from town C. Town A, B and C are forming a right triangle at A. A road connects towns B and C directly. Find the length of this road.

9. Find the height of an equilateral triangle whose side measures 58 cm.

10. A box is in the shape of a square of sides 65 cm. What is its hypotenuse?

Topic: <u>Pythagorean Theorem Word Problems - Worksheet 5</u>

1. Monty drives his bike 56 km east and then 188 km south. How far is he from his starting point?

2. Using the Pythagorean Theorem, find the area of an equilateral triangle whose side measures 16 units. Find the area to the *nearest tenth* of a square unit.

3. If the legs of an isosceles right triangle are 24 inches long, approximate the length of the hypotenuse to the nearest whole number

4. Roger rides his bike 38 km north and then 243 km east. How far is he from his starting point?

5. If a leg of a triangle is 51 ft long, and another leg is 71 ft long, what is the length of the hypotenuse?

6. A pool is in the shape of a square of sides 85 feet. What is its hypotenuse?

7. If a side of a triangle is 29 ft long, and another side is 62 ft long, what is the length of the hypotenuse?

8. Town A is 24 miles from town B, and 49 miles from town C. Town A, B and C are forming a right triangle at A. A road connects towns B and C directly. Find the length of this road.

9. Find the height of an equilateral triangle whose side measures 78 cm.

10. A box is in the shape of a square of sides 68 cm. What is its hypotenuse?