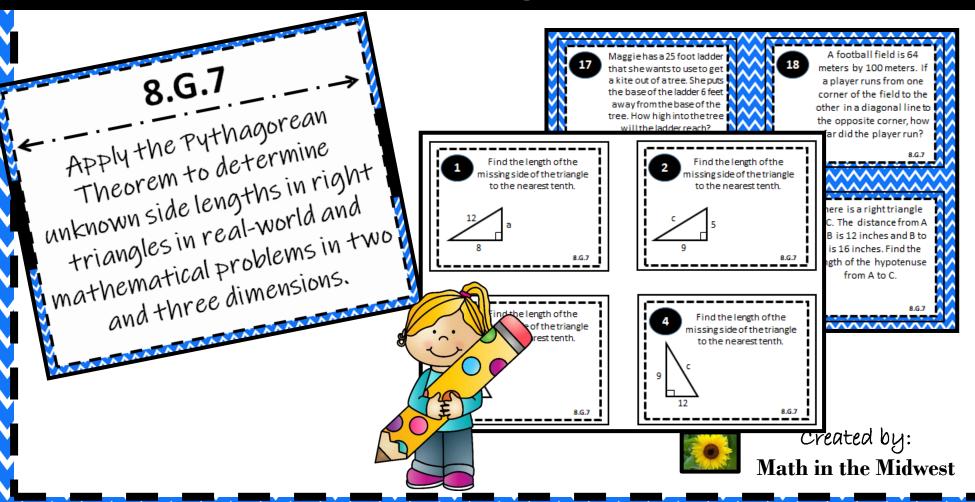
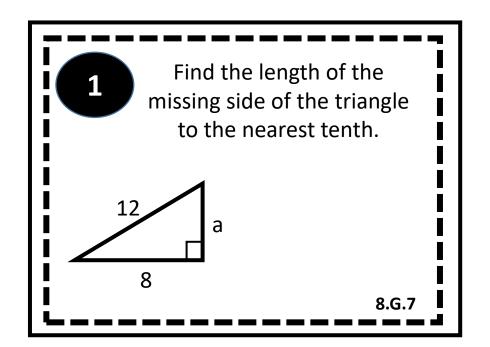
Geometry Task Cards 8.G.7

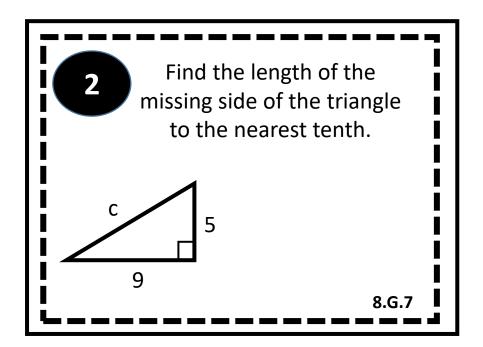
20 Task Cards, Recording Sheet, Answer Sheet

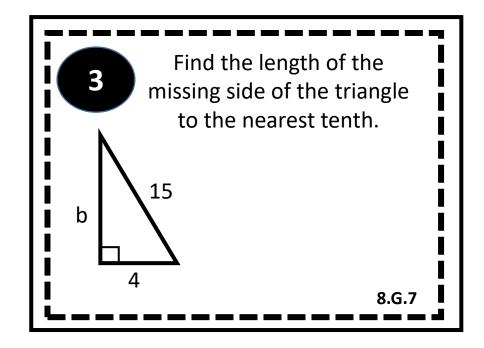


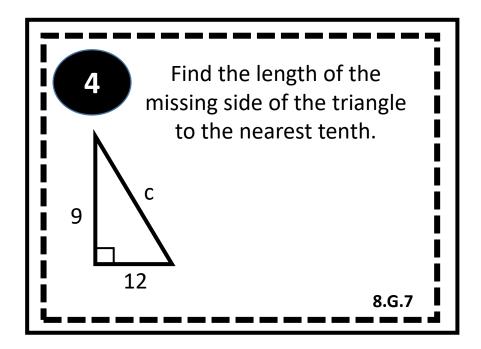
8.G.7

Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.









A fire truck parks 30 feet away from a building. The fire truck extends its ladder 45 feet to the very top of the building. How tall is the building?

8.G.7

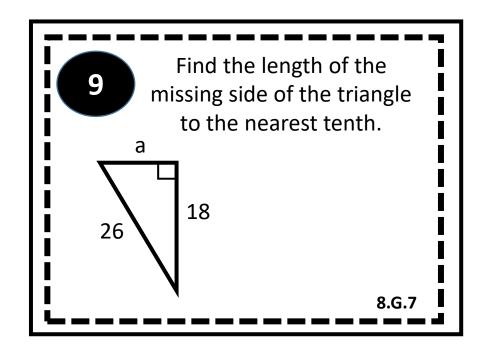
A cat is stuck on the roof. If the ladder is 18 feet long and must be placed nine feet away from the building. How high can the ladder reach up the building to help save the cat?

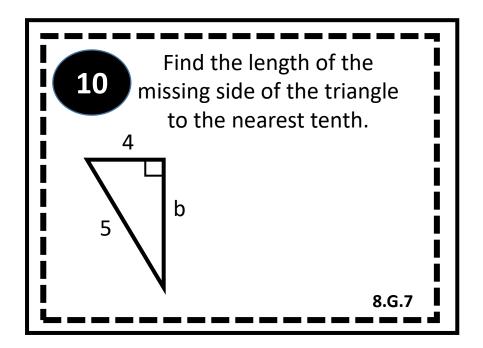
Jacob made a rectangular table for his dining room. The sides of the table are 16 feet and 5 feet. What is the length of the diagonal of the table?

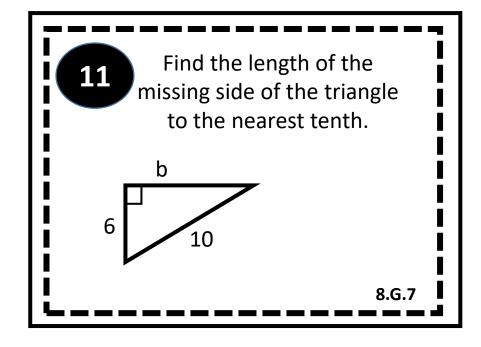
8.G.7

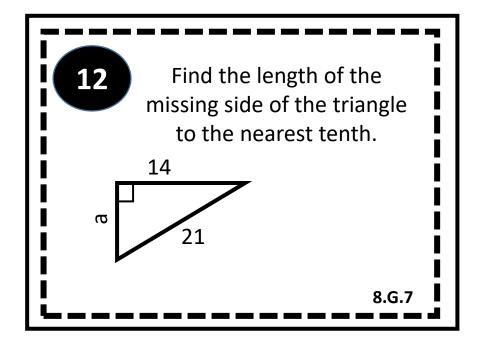
Mrs. Carp tells you that a right triangle has a hypotenuse of 32 units and a leg of 14 units. She asks you to find the other leg of the triangle. What is your answer?

8.G.7









Jackie leaves the house to met her friend at the park. She walks 1 miles west and 2.5 miles north. How far is Jackie from her starting point?

8.6.7

A soccer field is a rectangle
90 meters wide and 120
meters long. The coach asks
players to run from one
corner to the corner
diagonally across. What is
the distance to the nearest
tenth of a meter?

8.G.7

Two joggers run 5 miles north and then 4 miles west. What is the shortest distance, to the nearest tenth of a mile, they must travel to return to their starting point? 8.G.7

Katie is mailing pictures to her grandma and doesn't want the pictures to bend. The mail slot is 28 cm by 9 cm. What is the maximum width of the mail slot?

8.G.7

Maggie has a 25 foot ladder that she wants to use to get a kite out of a tree. She puts the base of the ladder 6 feet away from the base of the tree. How high into the tree will the ladder reach?

8.G.7

A football field is 64 meters by 100 meters. If a player runs from one corner of the field to the other in a diagonal line to the opposite corner, how far did the player run?

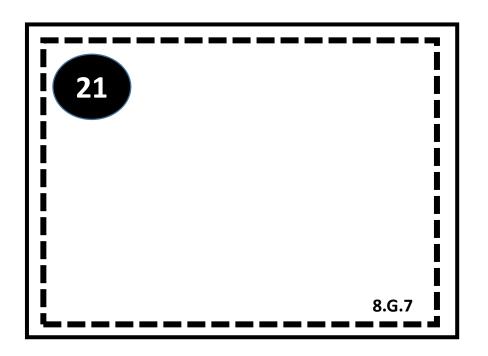
8.G.7

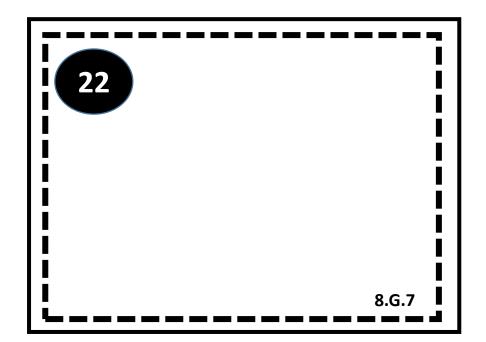
Kami's bird is on the ground. He is 12 feet away from a free and the tree is 24 feet tall. The bird flies to reach the top of the tree. How far did the bird have to fly?

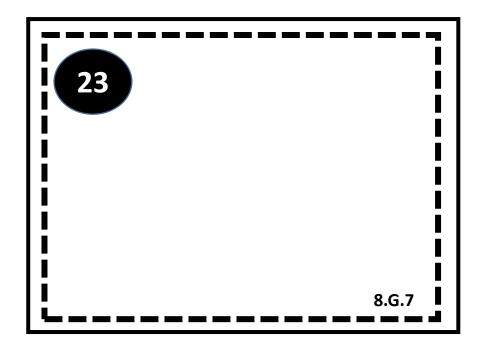
8.G.7

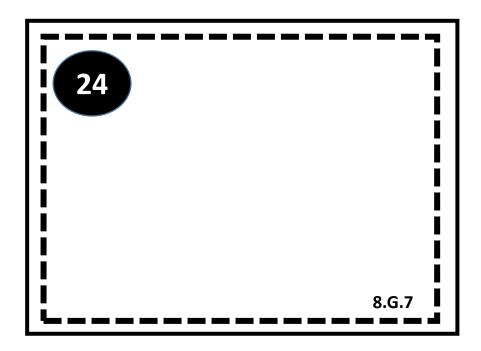
There is a right triangle
ABC. The distance from A
to B is 12 inches and B to
C is 16 inches. Find the
length of the hypotenuse
from A to C.

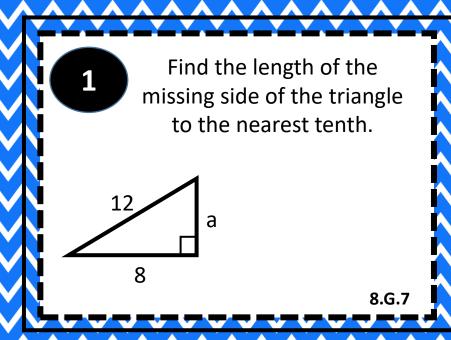
8.G.7

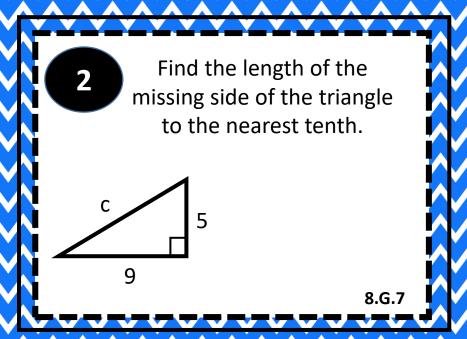


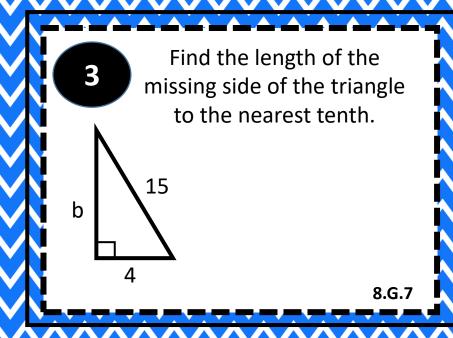


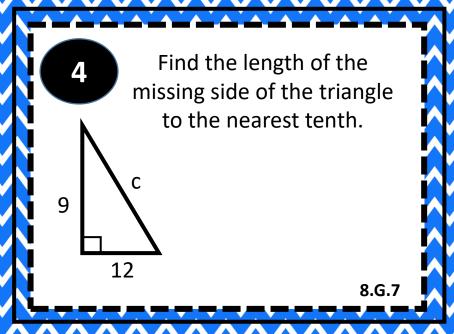












A fire truck parks 30 feet away from a building. The fire truck extends its ladder 45 feet to the very top of the building. How tall is the building?

8.G.7

A cat is stuck on the roof. If the ladder is 18 feet long and must be placed nine feet away from the building. How high can the ladder reach up the building to help save the cat?

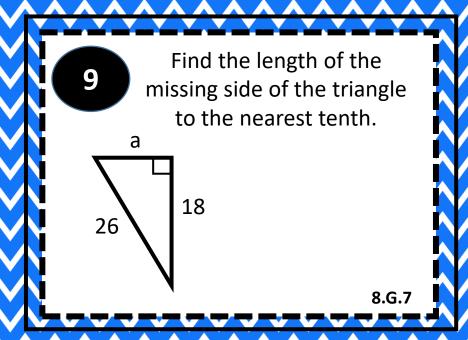
8.G.7

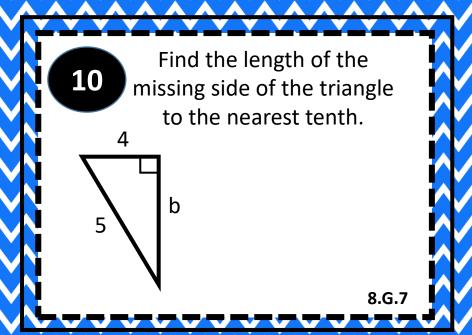
Jacob made a rectangular table for his dining room. The sides of the table are 16 feet and 5 feet. What is the length of the diagonal of the table?

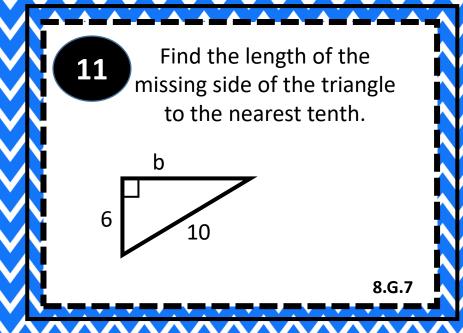
8.G.7

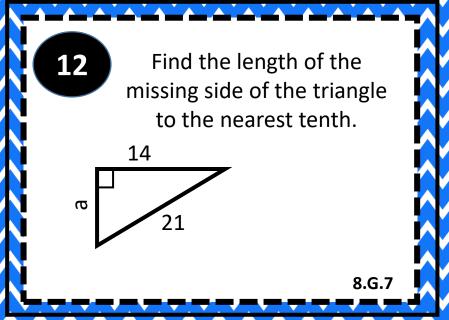
Mrs. Carp tells you that a right triangle has a hypotenuse of 32 units and a leg of 14 units. She asks you to find the other leg of the triangle. What is your answer?

8.G.7









to met her friend at the park. She walks 1 miles west and 2.5 miles north. How far is Jackie from her starting point?

8.G.7

A soccer field is a rectangle 90 meters wide and 120 meters long. The coach asks players to run from one corner to the corner diagonally across. What is the distance to the nearest tenth of a meter?

14

8.G.7

Two joggers run 5 miles north and then 4 miles west. What is the shortest distance, to the nearest tenth of a mile, they must travel to return to their starting point?

8.G.7

her grandma and doesn't want the pictures to bend. The mail slot is 28 cm by 9 cm. What is the maximum width of the mail slot?

8.G.7

Maggie has a 25 foot ladder that she wants to use to get a kite out of a tree. She puts the base of the ladder 6 feet away from the base of the tree. How high into the tree will the ladder reach?

8.G.7

A football field is 64 meters by 100 meters. If a player runs from one corner of the field to the other in a diagonal line to the opposite corner, how far did the player run?

18

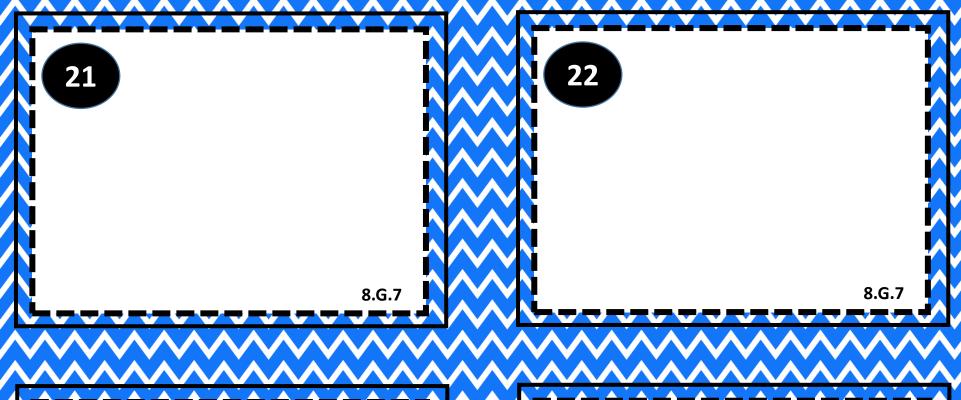
8.G.7

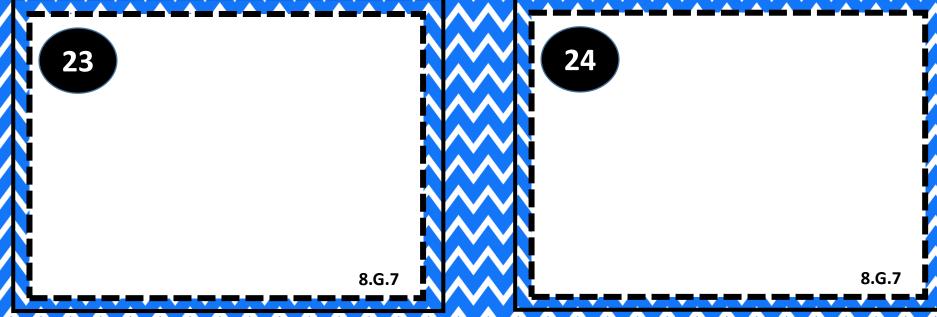
Kami's bird is on the ground. He is 12 feet away from a free and the tree is 24 feet tall. The bird flies to reach the top of the tree. How far did the bird have to fly?

8.G.7

There is a right triangle
ABC. The distance from A
to B is 12 inches and B to
C is 16 inches. Find the
length of the hypotenuse
from A to C.

8.G.7





Name _____

8.G.7 Recording Sheet

1.	2.	3.
4.	5.	6.
7.	8.	9.

10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	

Answer Key

Number	Answer
1	8.9 units
2	10.3 units
3	14.5 <i>units</i>
4	15 units
5	33.5 feet
6	15.6 feet
7	16.8 feet
8	28.8 <i>units</i>
9	18.8 <i>units</i>
10	3 units

Number	Answer
11	8 units
12	15.7 <i>units</i>
13	2.7 miles
14	150 meters
15	6.4 miles
16	29.4 cm
17	24.3 feet
18	118.7 meters
19	26.8 feet
20	20 inches

Check out my other products!

Ultimate Bundles:

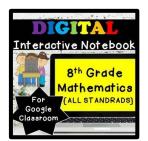


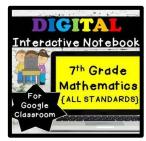


Digital Bundles:









Visit my store & follow me!

Escape Rooms:





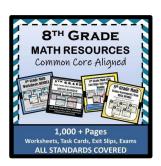








PDF Bundles:





© Math in the Midwest 2020

https://www.teacherspayteachers.com/Store/Math-In-The-Midwest



Terms of Use

Terms of Use Permission is granted to copy pages specifically for student or teacher use only by the original purchaser or licensee. The reproduction of this product for any other use is strictly prohibited. Copying any part of the product and placing it on the Internet is strictly prohibited. Doing so violates the Digital Millennium Copyright Act (DMCA).

© Math in the Midwest 2020

Be the first to know about my new discounts, freebies, and product launches. Click the link below to become a follower!

https://www.teacherspayteachers.com/Sellers-Im-Following/Add/Math-In-The-Midwest

Get TPT Credit on Future Purchases by:

• Leaving feedback on the products you purchase. TpT gives you feedback credits that you use to lower the cost of your future purchases. I truly love hearing what you think about my products so please consider leaving feedback! Thank you ©

Credit & many thanks to:



