Name _____ Date _____

1 The drawing below shows how 3 squares can be joined at their vertices to create a right triangle.

10 cm

8 cm
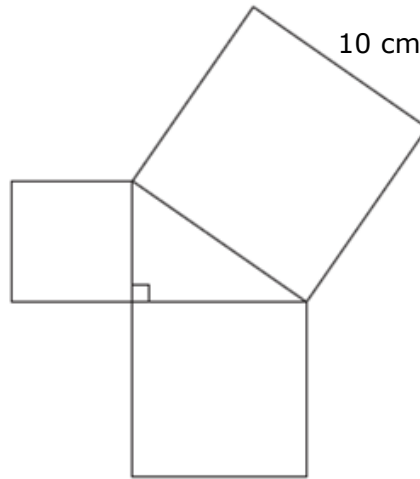
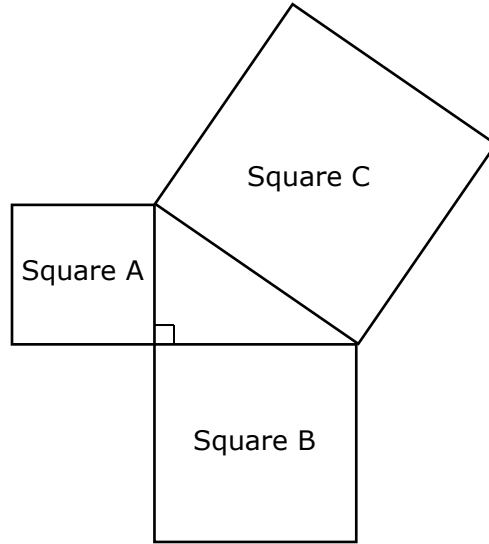Which is closest to the area of the smallest square?

A 2 cm^2

B 6 cm^2

C 18 cm^2

D 36 cm^2

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2 A square tabletop has an area of 36 square feet. Which of these is closest to length of the diagonal of the tabletop to the nearest tenth of a foot?

A 6 ft

B 8.5 ft

C 12 ft

D 12.7 ft

3 The drawing below shows 3 squares that enclose a right triangle.

Square C

Square A

Square B

If Square A's perimeter is 120 inches and Square C's perimeter is 200 inches, what is the perimeter of Square B?

A 80 in.

B 160 in.

C 320 in.

D 1,600 in.

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4 The size of a television is determined by the length of the diagonal of the screen. Sheree plans to mount a flat screen television on the wall of her living room. If the space on the wall has a height of 24 inches and a width of 45 inches, what is the largest television that Sheree can buy?
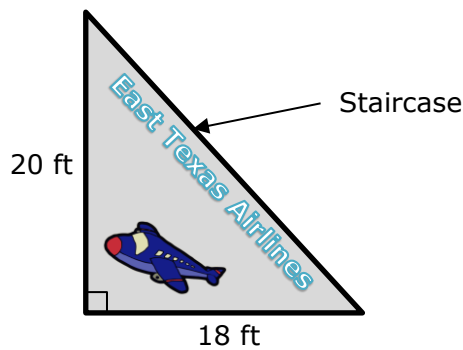
A 50 in.

B 48 in.

C 46 in.

D 44 in.

Name _____ Date _____

5 What is the distance between point A and point B?
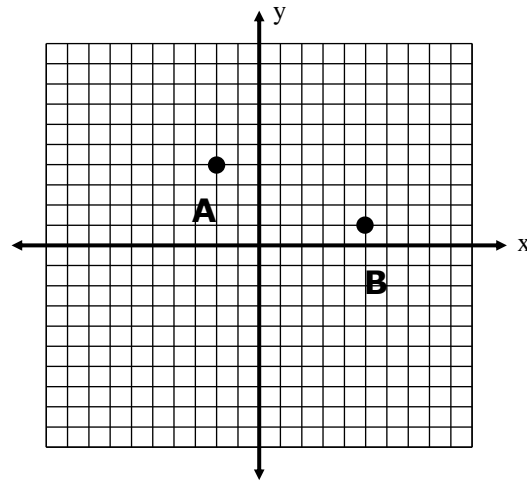
   A 10 units

   B √10 units

   C √58 units

   D √20 units

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6 The diagram below shows the side view of a portable staircase that is used to help passengers board and deboard an airplane when it is parked on the tarmac.

20 ft

Staircase

East Texas Airlines

18 ft

Which measurement is closest to the length of the staircase in feet?

   A 8.7 ft

   B 19 ft

   C 26.9 ft

   D 38 ft