

1. If the area of  $\triangle ABC$  at the right is 30,

- what is the length of DC? A) 2
- B) 4
- C) 6
- D) 8 E) 12

2. If  $a = 5\sqrt{2}$  and  $2a = \sqrt{2x}$ , what is the value of x?

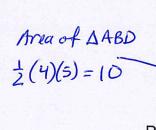
- 3. A bakery uses a special flour mixture that contains corn, wheat, rye in the ratio 3:5:2. If a bag of the mixture contains 5 pounds of rye how many pounds of wheat does it contain?
- C. 7.5 D. 10 E. 12.5

Bellwork

Alg 2

Thursday, February 7, 2019

AnswERS



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1. If the area of  $\triangle ABC$  at the right is 30,

what is the length of DC? A) 2

B) 4

C) 6 D) 8

E) 12

X

area A ADC = 20

$$2 \cdot 20 = \frac{1}{2} (x)(5) \cdot 2$$

$$\frac{40}{5} = (x)(5)$$

$$x = 8$$

2. If  $a = (5\sqrt{2})$  and  $2a = \sqrt{2x}$ , what is the value of x?

$$2(5\sqrt{2}) = \sqrt{2}x$$

$$(10\sqrt{2})^{2} = (\sqrt{2}x)^{2}$$

$$100-2 = 2x$$

$$\frac{200}{2} = \frac{2x}{2}$$

3. A bakery uses a special flour mixture that contains corn, wheat, rye in the ratio 3:5:2. If a bag of the mixture contains 5 pounds of rye how many pounds of wheat does it contain?

A. 2 B. 5 C. 7.5 D. 10 (E. 12.5)

corn: wheat: rye = 3:5:2

$$\frac{W}{r} = \frac{5}{2}$$

$$\frac{w}{5} = \frac{5}{2} \left( \cos^{5} w \right)^{14} / w = 12.5$$