

DZ01 Mathematics for Elementary Educators III MATH 1330 Version 1

Section: Elementary Literacy & Education • Total Questions: 10 • Format: Verified Q&A

1. A circle has a radius of 4.5 cm. What is the area of the circle?

- (A) 28.26 cm squared
 - (B) 31.79 cm squared
 - (C) 15.90 cm squared
 - (D) 63.59 cm squared
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2. A three-digit PIN is randomly selected using the digits 0–9. The digits can be repeated. What is the probability that there are no repeated digits?

- (A) 0.72
 - (B) 0.7
 - (C) 0.3
 - (D) 1
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3. Which of the following pairs of angles are supplementary? (Choose all that apply.)

- (A) 45 degrees and 45 degrees
 - (B) 72 degrees and 100 degrees
 - (C) 35 degrees and 55 degrees
 - (D) 60 degrees and 120 degrees
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4. Given these two quadrilaterals, find the value of

- (A) 12
 - (B) 16
 - (C) 20
 - (D) 22
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5. A triangle has vertices (1,2), (3,4), and (5,8). Which of the following triangles with the indicated vertices would create an enlarged similar triangle with a scale factor of 2?

- (A) (1,1), (3,2), (5,4)
 - (B) (1,4), (3,6), (5,10)
 - (C) (2,4), (6,6), (10,16)
 - (D) (3,4), (5,6), (7,10)
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6. An in-ground pool measures 16 ft by 40 ft and has a 2 ft wide walkway around it. What is the area of the walkway around the pool?

- (A) 880 ft squared
 - (B) 116 ft squared
 - (C) 640 ft squared
 - (D) 240 ft squared
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7. A builder cuts a 6 m rope into four pieces. Three of the pieces measure 1.2 m, 1.5 m, and 2.7 m. What is the length of the remaining piece?

- (A) 0.6 m
 - (B) 6 m
 - (C) 60 m
 - (D) 600 m
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8. Omar has a circular table with a diameter of 10 in, and Mei has a square table with each side measuring 10 in. Omar says that his table will require more material to cover, but Mei disagrees and thinks her table will require more material. Who is correct and why?

- (A) Mei, because her table requires 40 in squared of material
 - (B) Mei, because her table requires 100 in squared of material
 - (C) Omar, because his table requires 314.16 in squared of material
 - (D) Omar, because his table requires 31.79 in squared of material
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9. How many lines of symmetry does this shape have?

- (A) 4
 - (B) 8
 - (C) 2
 - (D) 1
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10. A data set has a mean of 14.5 and a median of 11.2. Which of the following terms would describe this data set?

- (A)** Bimodal
- (B)** Skewed left
- (C)** Skewed right
- (D)** Symmetrical