

# 14

## 面積

### 解答と解説

#### 解答

①

- (1) 9 cm<sup>2</sup>
- (2) 24 cm<sup>2</sup>
- (3) 8 cm<sup>2</sup>
- (4) 18 cm<sup>2</sup>
- (5) 12 cm<sup>2</sup>
- (6) 4 cm<sup>2</sup>
- (7) 16 cm<sup>2</sup>
- (8) 6 cm<sup>2</sup>
- (9) 113.04 cm<sup>2</sup>
- (10) 7.065 cm<sup>2</sup>

②

- (1) 36 cm<sup>2</sup>
- (2) 6.28 cm<sup>2</sup>
- (3) 10.5 cm<sup>2</sup>
- (4) 10.75 cm<sup>2</sup>
- (5) 57 cm<sup>2</sup>

#### 解説

\*いろいろな図形の面積

- 正方形の面積 = 1辺 × 1辺
- 長方形の面積 = 縦 × 横
- 平方四辺形の面積 = 底辺 × 高さ
- 三角形の面積 = 底辺 × 高さ ÷ 2
- 円の面積 = 半径 × 半径 × 3.14



①

(1) $3 \times 3 = 9 \text{ (cm}^2\text{)}$ 	(2) $4 \times 6 = 24 \text{ (cm}^2\text{)}$ 	(3) $4 \times 2 = 8 \text{ (cm}^2\text{)}$ 	(4) $3 \times 6 = 18 \text{ (cm}^2\text{)}$ 
(5) $6 \times 4 \div 2 = 12 \text{ (cm}^2\text{)}$ 	(6) $2 \times 4 \div 2 = 4 \text{ (cm}^2\text{)}$ 	(7) $4 \times 8 \div 2 = 16 \text{ (cm}^2\text{)}$ 	(8) $3 \times 4 \div 2 = 6 \text{ (cm}^2\text{)}$ 

(9) 半径は6cm。

$$6 \times 6 \times 3.14 = 113.04 \text{ (cm}^2\text{)}$$

(10) 半径3cmの円の $\frac{1}{4}$ だから、面積は半径3cmの円の $\frac{1}{4}$ になる。

$$3 \times 3 \times 3.14 \times \frac{1}{4} = 7.065 \text{ (cm}^2\text{)}$$

②

(1)  $8 \times 3 + 3 \times 4 = 24 + 12 = 36 \text{ (cm}^2\text{)}$

(2)  $2 \times 2 \times 3.14 - 1 \times 1 \times 3.14 \times 2 = (2 \times 2 - 1 \times 1 \times 2) \times 3.14 = (4 - 2) \times 3.14 = 6.28 \text{ (cm}^2\text{)}$

(3)  $7 \times 7 \div 2 - 7 \times 4 \div 2 = 24.5 - 14 = 10.5 \text{ (cm}^2\text{)}$

(4)  $(5 \times 5 - 5 \times 5 \times 3.14 \div 4) \times 2 = (25 - 19.625) \times 2 = 10.75 \text{ (cm}^2\text{)}$

(5)  $(5 \times 5 \times 3.14) \times 2 - 10 \times 10 = 10 \times 5 \times 3.14 - 10 \times 10 = 157 - 100 = 57 \text{ (cm}^2\text{)}$