

Kunci Jawaban PTS MATEMATIKA KELAS 6

1	C	6	B	11	C	16	C
2	B	7	A	12	B	17	D
3	D	8	C	13	D	18	B
4	A	9	B	14	B	19	C
5	A	10	A	15	B	20	A

I.

1. Positif

$$2. -12 \times -14 + (-150) = 168 - 150 = 18$$

$$3. 729 : (-9) - 15 \times (-8) = -81 + 120 = 39$$

$$4. 1736 : 28 - 14 = 62 - 14 = 48$$

$$5. \frac{3}{2} + \frac{3}{4} - \frac{5}{8} = \frac{12+6-5}{8} = \frac{13}{8} = 1 \frac{5}{8}$$

$$6. \frac{\left(\frac{4}{3} \times 2\frac{1}{3}\right)}{\frac{1}{6}} = \frac{\frac{4}{3} \times \frac{7}{3}}{\frac{1}{6}} = \frac{\frac{28}{9}}{\frac{1}{6}} = \frac{28}{9} \times \frac{6}{1} = \frac{168}{9} = 18\frac{2}{3}$$

$$7. AB = \frac{1}{4} \times \text{keliling lingkaran}$$

$$= \frac{1}{4} \cdot \frac{22}{7} \cdot 56$$

$$= 44 \text{ cm}$$

$$8. \text{Keliling } \frac{1}{4} \text{ lingkaran} = \frac{1}{4} \cdot \frac{22}{7} \cdot 70$$

$$= 55 \text{ cm}$$

$$\text{Keliling keseluruhan} = 55 + 35 + 35$$

$$= 125 \text{ cm}$$

$$9. \text{Luas lingkaran} = 3,14 \times 25 \times 25$$

$$= 1962,5 \text{ cm}^2$$

$$10. \text{Luas lingkaran} = 3,14 \times 10 \times 10 = 314 \text{ cm}^2$$

$$\text{Luas persegi panjang} = 20 \times 12 = 240 \text{ cm}^2$$

$$\text{Luas keseluruhan} = 314 + 240 = 554 \text{ cm}^2$$

II.

1. Kewajiban yang harus dibayar = hutang + bayar buku
$$= 20.500 + 43.500$$
$$= 64.000$$

Kekurangan uang
$$= 64.000 - 58.000$$
$$= 6000$$

Jadi kekurangan uang fadil Rp 6.000

2. Permen bagian Abu $= \frac{1}{3} \times 24 = 8$ permen
Permen dibagikan ke adiknya $= 24 - 8 = 16$ permen
Permen yang diambil adik $= \frac{3}{4} \times 16 = 12$ permen
Sisa permen $16 - 12 = 4$ permen
Jadi sisa permen Abu $= 8 + 4 = 12$ permen

3. Keliling kolam $= 3,14 \times 20 = 62,8$ m
Jarak yang ditempuh $= 62,8 \times 12 = 753,6$ m

4. Keliling lingkaran $= \frac{22}{7} \times 42 = 132$ m
Biaya $= \frac{132}{2} \times 40.000 = 2.640.000$

Jadi biaya yang harus dikeluarkan oleh Pak Amin yaitu Rp 2.640.000

5. Keliling lingkaran $= \frac{3}{4} \cdot \frac{22}{7} \cdot 42 = 99$ m
Keliling keseluruhan $= 99 + 21 + 21 = 141$ cm

Luas lingkaran $= \frac{3}{4} \cdot \frac{22}{7} \cdot 21 \cdot 21 = 1.039,5 \text{ cm}^2$

Luas persegi $= 21 \times 21 = 441 \text{ cm}^2$

Luas keseluruhan $= 1.039,5 + 441 = 1480,5 \text{ cm}^2$