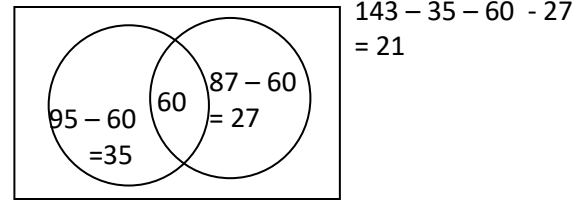


Penyelesaian Bahan ajar

Prediksi UN Paket 5

- $6 \times (-3 + 2) : (4 - 7) = 6 \times (-1) : (-3) = 2$
- $37 \times 4 - 9 \times 2 - 4 \times 1 = 148 - 18 - 4 = 126$
- $\frac{6-3}{6+3} \times 81 = \frac{3}{9} \times 81 = 27$
- $\frac{2}{6} = \frac{60}{x} \Leftrightarrow x = \frac{6 \times 60}{2} = 180 \text{ cm}$
- $\frac{1}{p} = \frac{1}{20} + \frac{1}{30} = \frac{3}{60} + \frac{2}{60} = \frac{5}{60}$
 $p = \frac{60}{5} = 12 \text{ menit}$
- $\sqrt{6} \times \sqrt{3} = \sqrt{18} = \sqrt{9 \times 2} = 3\sqrt{2}$
- $\frac{8}{\sqrt{5}-\sqrt{3}} \times \frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}+\sqrt{3}} = \frac{8(\sqrt{5}+\sqrt{3})}{5-3} =$
 $\frac{8(\sqrt{5}+\sqrt{3})}{2} = 4(\sqrt{5}+\sqrt{3}) = 4\sqrt{5} + 4\sqrt{3}$
- Bunga 1 tahun = $\frac{6}{100} \times 2.000.000 = 120.000$
 Bunga tabungan = $2.080.000 - 2.000.000 = 80.000$
 Lama menabung = $\frac{80.000}{120.000} \times 12 = 8 \text{ bulan}$
- 3,4,6,9, ... (ditambah bilangan asli berurutan) selanjutnya 13, 18
- $b = \frac{22-13}{8-5} = \frac{9}{3} = 3;$
 $U_{20} = U_8 + b \times 12 = 22 + 36 = 58$
- $r^{4-2} = \frac{36}{4} = 9$
 $r^2 = 3^2 \Leftrightarrow r = 3$
 $U_8 = U_4 + r^4 = 36 \times 81 = 2.916$
- $7x+8=4x+17$
 $7x-4x=17-8$
 $3x=9$
 $x=3$
 $x+11=3+11=14$
- Bilangan tengah = $\frac{39}{3} = 13$
 Bilangan kecil = $13 - 1 = 12$
 Bilangan besar = $13 + 1 = 14$
 Jumlah bilangan = $12 + 14 = 26$

- $M = \{1, 3, 5, 7\}; N = \{5, 7, 11\}$
 $M \cup N = \{1, 3, 5, 7, 11\}$
- $K - L = \{0, 2, 4, 6\}$
- Menggunakan diagram Venn:



- $f(x) = -4x + 7;$
 $f(-2) = -4(-2) + 7 = 8 + 7 = 15$
- $6x - 3y + 18 = 0$
 $6x + 18 = 3y \quad |:3|$
 $2x + 6 = y$
 $m = 2$
- $m = \frac{5}{2}$
 Persamaan garis: $y = mx + c$
 $y = \frac{5}{2}x - 5 \quad |:2|$
 $2y = 5x - 10$
 $2y - 5x + 10 = 0$
- $m = 5$
 Persamaan garis: $y - y_1 = m(x - x_1)$
 $y - 7 = 5(x + 2)$
 $y = 5x + 10 + 7$
 $y = 5x + 17$
- Harga 1 pensil = $\frac{12.000}{4} = 3.000$
 Harga 1 buku = $2 \times 3.000 = 6.000$
 Harga 2 buku = $2 \times 6.000 = 12.000$
- $p^2 = 12^2 + 5^2 = 144 + 25 = 169$
 $p = \sqrt{169} = 13 \text{ m}$
- Luas tidak arsir 1 = $15 \times 18 - 72$
 Luas tidak arsir 2 = $11 \times 11 - 72$

 Luas tidak arsir = $391 - 144 = 247$
- Keliling = $2(10 + 16) = 2(26) = 52$

$$25. z = \frac{40-16}{2} = \frac{24}{2} = 12$$

$$p^2 = 12^2 + 16^2 = 144 + 256 = 400$$

$$p = \sqrt{400} = 20 \text{ m}$$

Banyak tiang =

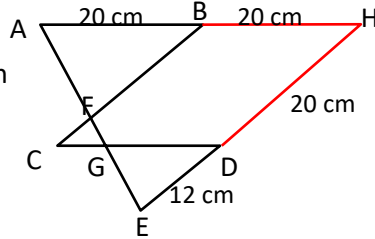
$$\frac{40+16+20+20}{4} = 10+4+5+5 = 24$$

26. Lihat $\triangle ABF$
Dan $\triangle AHE$ sebangun

$$\frac{AB}{AH} = \frac{BF}{EH}$$

$$\frac{20}{40} = \frac{BF}{32}$$

$$BF = \frac{32 \times 20}{40} = 16$$



27. $\angle DEC = \angle CAB$ (diketahui tanda o)

$CE = AC$ (diketahui tanda |)

$\angle DCE = \angle ACB$ (bertolak belakang)

$$28. \angle AEC = \frac{1}{2} \angle AOC = \frac{1}{2} \times 140^\circ = 70^\circ$$

$$29. \frac{\angle LPM}{\angle KPN} = \frac{L.LPM}{L.KPN}$$

$$\frac{45^\circ}{60^\circ} = \frac{24}{L.KPN}$$

$$L.KPN = \frac{24 \times 60}{45} = 32$$

30. Jaring-jaring kubus, (i)141 (iii) 222

$$31. 4\text{Kerangka} = 4 \times 4 \times (24+20+16) = 16 \times 60 = 960$$

$$\text{Sisa kawat} = 1000 - 960 = 40$$

$$32. V = \frac{1}{3} \times A \times t$$

$$= \frac{1}{3} \times \left(\frac{1}{2} \times 12 \times 16 \right) \times 21 = 672$$

$$33. L = 2(16 \times 16 + 16 \times 4 \times 2)$$

$$= 2(384) = 768$$

$$34. \text{Mean} = \frac{54}{10} = 5,4 \quad \text{Median} = 5,5$$

35. $X_0 = 7$

x	4	5	6	7	8	9	10	Σ
f	5	3	4	3	5	2	1	23

$$\text{Kurang dari 8} = 5+3+4+3 = 15$$

36. Lebih dari 7 = 3 + 4 + 2 = 9

$$37. \text{Kesenian} = 360 - 120 - 60 - 90 = 90$$

$$= \frac{90}{360} \times 280 = 70$$

38. Lebih dari 4 = {5, 6}

$$P(\text{lebih dari 4}) = \frac{2}{6} = \frac{1}{3}$$

39. Dua angka = {AA}

$$P(AA) = \frac{1}{4}$$

$$40. P(\text{kuning}) = \frac{4}{4+14+6} = \frac{1}{6}$$