Soal Sumatif — Pecahan

Kelas 7 · Semester Ganjil · 30 butir · Waktu 80 menit

Versi Soal + Pembahasan (untuk belajar mandiri)

Kunci Jawaban Singkat

No	Kunci	No	Kunci	No	Kunci	No	Kunci
1	A	9	C	17	a,c	25	1
2	B	10	B	18	a,b,c	26	$\frac{1}{4}$ m
3	C	11	B	19	B,B,S	27	$\frac{1}{4}$ kg
4	C	12	B	20	B,S,B	28	$\frac{7}{10}$, belum penuh
5	C	13	B	21	B,B,S	29	$2\frac{1}{4}$ kg
6	B	14	C	22	B,S,B	30	lk 16 > pr 12, selisih 4
7	A	15	a,b,d	23	$\frac{1}{2}$		
8	C	16	a,c,d	24	$\frac{7}{8}$		

Pembahasan Lengkap

1. Samakan penyebut (KPK = 12): $\frac{1}{3} = \frac{4}{12}$, $\frac{1}{2} = \frac{6}{12}$, $\frac{3}{4} = \frac{9}{12}$, $\frac{5}{6} = \frac{10}{12}$. Urutan terkecil: $\frac{1}{3}, \frac{1}{2}, \frac{3}{4}, \frac{5}{6}$. **A**
2. KPK = 12: $\frac{8}{12} + \frac{3}{12} = \frac{11}{12}$. **B**
3. KPK = 12: $\frac{9}{12} - \frac{2}{12} = \frac{7}{12}$. **C**
4. $\frac{2}{5} \times \frac{3}{4} = \frac{6}{20} = \frac{3}{10}$. **C**
5. $\frac{3}{8} \times \frac{4}{1} = \frac{12}{8} = \frac{3}{2} = 1\frac{1}{2}$. **C**
6. $\frac{3}{8} = 3 : 8 = 0{,}375$. **B**
7. $0{,}6 = \frac{6}{10} = \frac{3}{5}$. **A**
8. $\frac{3}{5} = \frac{60}{100} = 60\%$. **C**
9. $2 - \frac{3}{4} = \frac{8}{4} - \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$ kg. **C**
10. Komutatif: urutan ditukar, hasil sama → $\frac{2}{3} \times \frac{1}{2} = \frac{1}{2} \times \frac{2}{3}$. (A asosiatif, C distributif, D identitas). **B**
11. $\frac{1}{4} + \frac{3}{8} = \frac{2}{8} + \frac{3}{8} = \frac{5}{8}$. **B**
12. Total ditanami $= \frac{2}{8} + \frac{3}{8} + \frac{1}{8} = \frac{6}{8} = \frac{3}{4}$; sisa $= 1 - \frac{3}{4} = \frac{1}{4}$. **B**
13. Jeruk $\frac{3}{8}$ lebih besar dari mangga $\frac{2}{8}$ dan rambutan $\frac{1}{8}$. **B**
14. Perkalian dulu: $\frac{3}{4} \times 2 = \frac{3}{2} = 1\frac{1}{2}$; lalu $2\frac{1}{2} + 1\frac{1}{2} = 4$. **C**
15. a. $\frac{6}{8} = \frac{3}{4}$ ✓; b. $\frac{9}{12} = \frac{3}{4}$ ✓; c. $\frac{2}{3} \neq \frac{3}{4}$ ×; d. $\frac{15}{20} = \frac{3}{4}$ ✓. **a, b, d**
16. a. $\frac{5}{6}$ ✓; b. $\frac{3}{4} - \frac{1}{2} = \frac{1}{4}$, bukan $\frac{1}{2}$ ×; c. $\frac{6}{12} = \frac{1}{2}$ ✓; d. $\frac{1}{4} \times 2 = \frac{1}{2}$ ✓. **a, c, d**
17. a. 0,375 ✓; b. 0,625 ×; c. 0,4 ✓; d. $\approx 0{,}56$ ×. **a, c**
18. a. $\frac{5}{4}$ ✓; b. $\frac{3}{4}$ ✓; c. $\frac{2}{5}$ ✓; d. $\frac{3}{5} = 0{,}6$, bukan 0,35 ×. **a, b, c**
19. a. Benar; b. Benar; c. Salah ($\frac{10}{40} = \frac{1}{4}$, bukan $\frac{1}{2}$). **B, B, S**
20. a. Benar (0,75 > 0,67); b. Salah (0,625 > $\frac{1}{2}$); c. Benar. **B, S, B**
21. a. Benar ($\frac{2}{3} \times \frac{3}{2} = 1$ kg); b. Benar ($\frac{3}{4} < 1$); c. Salah (sisa $= 2 - 1 = 1$ kg). **B, B, S**
22. a. Benar ($\frac{6}{6} - \frac{3}{6} - \frac{2}{6} = \frac{1}{6}$); b. Salah ($\frac{1}{3} < \frac{1}{2}$); c. Benar ($\frac{5}{6}$). **B, S, B**
23. $\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$. $\frac{1}{2}$
24. $0{,}875 = \frac{875}{1000} = \frac{7}{8}$ (FPB 125). $\frac{7}{8}$
25. $\frac{3}{2} \times \frac{2}{3} = \frac{6}{6} = 1$. **1**
26. $\frac{3}{4} : 3 = \frac{3}{4} \times \frac{1}{3} = \frac{1}{4}$ m. $\frac{1}{4}$ **m**
27. Gula terpakai $= \frac{1}{3} \times \frac{3}{4} = \frac{1}{4}$ kg. Sisa $= \frac{3}{4} - \frac{1}{4} = \frac{1}{2}$ kg. Per toples: $\frac{1}{2} : 2 = \frac{1}{4}$ kg.
28. $\frac{2}{5} + \frac{3}{10} = \frac{4}{10} + \frac{3}{10} = \frac{7}{10}$ bak. Karena $\frac{7}{10} < 1$, bak belum penuh; tersisa $\frac{3}{10}$ bagian kosong.

29. Terjual pagi $= \frac{2}{5} \times 5 = 2$ kg, sisa $= 3$ kg. Terjual siang $= \frac{1}{4} \times 3 = \frac{3}{4}$ kg. Sisa akhir $= 3 - \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$ kg.
30. Laki-laki gemar olahraga $= \frac{2}{3} \times 24 = 16$; perempuan gemar seni $= \frac{3}{4} \times 16 = 12$. Karena $16 > 12$, kelompok laki-laki lebih banyak, selisih $16 - 12 = 4$ siswa.