

3.2 Least Common Multiple

Find the least common multiple of the numbers.

1. 9, 10

2. 4, 14

3. 8, 12

4. 6, 15

5. 18, 27

6. 24, 36

Find the least common multiple of the monomials.

7. $5a, a^2$

8. m^3, m^5

9. $x^3, 8x^4$

10. $6d^2, 44d^3$

11. $22k^4, 34k^2$

12. $3g^5, 20g^2$

Find the LCD

13. $\frac{1}{3}, \frac{3}{8}$

14. $\frac{4}{5}, \frac{5}{7}$

15. $\frac{3}{4}, \frac{7}{10}$

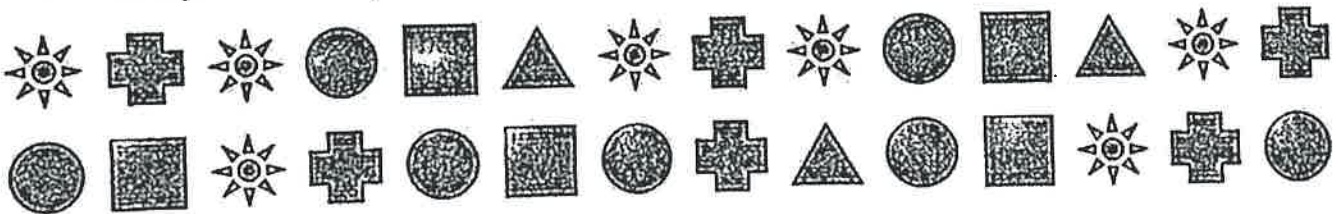
16. $\frac{7}{12}, \frac{13}{15}$

17. $\frac{11}{20}, \frac{17}{24}$

18. $\frac{2}{5}, \frac{3}{11}$

19. In April, it rained 16 out of 30 days. In May, it rained 8 out of 31 days. Which month had a greater fraction of rainy days?

20. In the first pattern shown below, the triangle repeats every 6 figures. In the second pattern, the triangle repeats every 9 figures. How many figures after the first figure will both patterns have a triangle?



21. Noreen runs a lap around a track in 70 seconds while Elnora runs a lap around the same track in 80 seconds. The girls start their laps at the same time from the same place on the track and maintain their pace. When will they both be at their starting place at the same time again?

Order the numbers from least to greatest.

22. $\frac{12}{7}, \frac{11}{6}, 1\frac{9}{14}$

23. $\frac{95}{26}, \frac{15}{4}, 3\frac{8}{13}$

24. $\frac{23}{8}, 2\frac{5}{12}, \frac{8}{3}$

25. $\frac{10}{27}, \frac{1}{3}, \frac{5}{18}$

26. $\frac{23}{14}, \frac{13}{8}, 1\frac{3}{5}$

27. $4\frac{10}{21}, \frac{277}{63}, \frac{31}{7}$

Method #1: List first several multiples.
Method #2: Use prime factorization.