

Content HW_Grade-5_Arithmetic Operations

Mental Multiplication of Large Numbers

1. **Use the distributive property to complete.**

$$\begin{aligned} 15. \quad 4 \times (3 + 2) &= (4 \times 3) + (4 \times 2) \\ 4 \times \frac{?}{?} &= \frac{?}{?} + \frac{?}{?} \\ \frac{?}{?} &= \frac{?}{?} \end{aligned}$$

$$\begin{aligned} 16. \quad 3 \times (5 + 4) &= (3 \times \frac{?}{?}) + (3 \times \frac{?}{?}) \\ 3 \times \frac{?}{?} &= \frac{?}{?} + \frac{?}{?} \\ \frac{?}{?} &= \frac{?}{?} \end{aligned}$$

$$\begin{aligned} 17. \quad 5 \times (6 + 3) &= (\frac{?}{?} \times \frac{?}{?}) + (\frac{?}{?} \times \frac{?}{?}) \\ \frac{?}{?} \times \frac{?}{?} &= \frac{?}{?} + \frac{?}{?} \\ \frac{?}{?} &= \frac{?}{?} \end{aligned}$$

2. **Find the product.**

12. 4×1 ten

13. 7×3 tens

14. 8×1 hundred

15. 9×6 tens

16. 2×5 hundreds

17. 4×7 hundreds

18. 7×1 thousand

19. 6×3 thousands

20. 5×8 thousands

3. **Find the product. Use mental math**

16. 2×304

17. 3×131

18. 2×642

19. 5×160

20. 6×702

21. 4×261

22. 8×625

23. 7×444

24. 9×368

4. Find the product.

$$\begin{array}{r} 22. \quad 2 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \quad 7 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 24. \quad 8 \\ \times 40 \\ \hline \end{array}$$

$$\begin{array}{r} 25. \quad 9 \\ \times 60 \\ \hline \end{array}$$

$$\begin{array}{r} 26. \quad 8 \\ \times 70 \\ \hline \end{array}$$

$$\begin{array}{r} 27. \quad 6 \\ \times 90 \\ \hline \end{array}$$

$$\begin{array}{r} 28. \quad 8 \\ \times 80 \\ \hline \end{array}$$

$$\begin{array}{r} 29. \quad 5 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 30. \quad 4 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 31. \quad 9 \\ \times 40 \\ \hline \end{array}$$

32. 8×50

33. 7×30

34. 8×20

35. 6×40

36. 70×2

37. 30×5

38. 80×7

39. 5×60

40. 60×4

41. 90×6

42. 70×4

43. 40×2

44. 3×70

45. 7×50

46. 9×90

47. 8×80