KIDSLEARN MATH · PRACTICE ASSIGNMENT

Mental Math Practice

Name: Date: Score: / 50

Work every problem in your head — no written column sums. Write only the answer. Each answer in the key shows a trick that makes it quick. Answers are at the end.

Part A — Warm-up

1. What is the total of 84 and 28?

2. Add 80 and 48.

3. $37 + 27$

4. $70 + 49$

5. What is the difference between 54 and 37?

6. What is 67 less than 87?

7. What is 48 less than 77?

8. $78 - 58$

9. 19×9

10. 20×23

11. 5×40

12. 9×17

13. What is 10% of 220?

14. What is 75% of 80?

15. What is 50% of 20?

Part B — Core practice

16. $696 + 799$

17. $3337 + 4993$

18. Add 3998 to 4569.

19. $603 + 599$

20. $929 - 696$

21. $419 - 265$

22. $595 - 196$

23. You pay for a $342 bike with $1000. How much change do you get?

24. 13×16

25. 16×8

26. 11×19

27. 13×25

28. $126 \div 9$

29. $336 \div 21$

30. Share 128 sweets equally among 8 children. How many does each child get?

31. Share 224 sweets equally among 16 children. How many does each child get?

32. A square tile is 15 cm on each side. What is its area?

33. A square tile is 24 cm on each side. What is its area?

34. What is 13 squared?

35. 40% of the 60 students in a school walk to school. How many students is that?

36. What is 20% of 160?

37. 5% of the 180 students in a school walk to school. How many students is that?

38. 60% of the 480 students in a school walk to school. How many students is that?

Part C — Challenge

39. $8 \times 58 \times 125$

40. 11×83

41. $5 \times 56 \times 20$

42. 55^2

43. What is 43 squared?

44. 45^2

45. 15% of a number is 12. What is the number?

46. 20% of a number is 20. What is the number?

47. 40% of a number is 120. What is the number?

48. A school has 26 classes with 24 students in each. About how many students is that?

(A) 60 (B) 6,000

(C) 600 (D) 600,000

49. A school has 33 classes with 22 students in each. About how many students is that?

(A) 60,000 (B) 6,000

(C) 600 (D) 60

50. A school has 18 classes with 21 students in each. About how many students is that?

(A) 400 (B) 40,000

(C) 40 (D) 4,000

Answer Key — Mental Math Practice

1. 112
   28 is 2 less than 30: $84 + 30 = 114$, then take away 2 to get 112.
2. 128
   48 is 2 less than 50: $80 + 50 = 130$, then take away 2 to get 128.
3. 64
   27 is 3 less than 30: $37 + 30 = 67$, then take away 3 to get 64.
4. 119
   49 is 1 less than 50: $70 + 50 = 120$, then take away 1 to get 119.
5. 17
   Take away 40 instead, then add back the extra 3: $54 - 40 = 14$, $14 + 3 = 17$.
6. 20
   Take away 70 instead, then add back the extra 3: $87 - 70 = 17$, $17 + 3 = 20$.
7. 29
   Take away 50 instead, then add back the extra 2: $77 - 50 = 27$, $27 + 2 = 29$.
8. 20
   Take away 60 instead, then add back the extra 2: $78 - 60 = 18$, $18 + 2 = 20$.
9. 171
   Ten lots take away one lot: $19 \times 10 - 19 = 190 - 19 = 171$.
10. 460
    Double, then times 10: $23 \times 2 = 46$, $46 \times 10 = 460$.
11. 200
    Times 5 is times 10, then halve: $40 \times 10 = 400$, half of that is 200.
12. 153
    Ten lots take away one lot: $17 \times 10 - 17 = 170 - 17 = 153$.
13. 22
    10% is one tenth: $220 \div 10 = 22$.
14. 60
    A quarter of 80 is 20; three quarters is $3 \times 20 = 60$.
15. 10
    50% is a half: $20 \div 2 = 10$.
16. 1495
    696 is 4 less than 700: $799 + 700 = 1499$, then take away 4 to get 1495.
17. 8330
    4993 is 7 less than 5000: $3337 + 5000 = 8337$, then take away 7 to get 8330.
18. 8567
    3998 is 2 less than 4000: $4569 + 4000 = 8569$, then take away 2 to get 8567.
19. 1202
    599 is 1 less than 600: $603 + 600 = 1203$, then take away 1 to get 1202.
20. 233
    Take away 700, then add back 4: $929 - 700 = 229$, $229 + 4 = 233$.
21. 154
    Count up from 265: $+35$ reaches 300, $+119$ reaches 419. Total $35 + 119 = 154$.
22. 399
    Take away 200, then add back 4: $595 - 200 = 395$, $395 + 4 = 399$.
23. $658
    $999 - 342 = 657$ (no borrowing), then add 1: 658.
24. 208
    Split 13 into 10 + 3: $10 \times 16 + 3 \times 16 = 160 + 48 = 208$.
25. 128
    Split 16 into 10 + 6: $10 \times 8 + 6 \times 8 = 80 + 48 = 128$.
26. 209
    Split 19 into 10 + 9: $10 \times 11 + 9 \times 11 = 110 + 99 = 209$.
27. 325
    Split 25 into 20 + 5: $20 \times 13 + 5 \times 13 = 260 + 65 = 325$.
28. 14
    Split 126 into $90 + 36$: $90 \div 9 = 10$ and $36 \div 9 = 4$, so 14.

29. 16
Split 336 into $210 + 126$: $210 \div 21 = 10$ and $126 \div 21 = 6$, so 16.

30. 16
Split 128 into $80 + 48$: $80 \div 8 = 10$ and $48 \div 8 = 6$, so 16.

31. 14
Split 224 into $160 + 64$: $160 \div 16 = 10$ and $64 \div 16 = 4$, so 14.

32. 225 **cm²**
$15^2 = (10 + 5)^2 = 10^2 + 2 \times 10 \times 5 + 5^2$
$= 100 + 100 + 25 = 225$.

33. 576 **cm²**
$24^2 = (20 + 4)^2 = 20^2 + 2 \times 20 \times 4 + 4^2$
$= 400 + 160 + 16 = 576$.

34. 169
$13^2 = (10 + 3)^2 = 10^2 + 2 \times 10 \times 3 + 3^2$
$= 100 + 60 + 9 = 169$.

35. 24
10% is 6, so 40% is $4 \times 6 = 24$.

36. 32
10% is 16, so 20% is $2 \times 16 = 32$.

37. 9
10% is 18, so 5% is half of that: 9.

38. 288
10% is 48, so 60% is $6 \times 48 = 288$.

39. 58000
Change the order: $8 \times 125 = 1000$, then $1000 \times 58 = 58000$.

40. 913
Add the digits and put the sum in the middle: $8 + 3 = 11$, carry the 1, so $11 \times 83 = 913$.

41. 5600
Change the order: $5 \times 20 = 100$, then $100 \times 56 = 5600$.

42. 3025
For a number ending in 5: $5 \times 6 = 30$, then write 25 after it: 3025.

43. 1849
$(50 - 7)^2 = 2500 - 700 + 49 = 1849$.

44. 2025
$(50 - 5)^2 = 2500 - 500 + 25 = 2025$.

45. 80
15% is $\frac{3}{20}$. So $\frac{1}{20}$ of the number is $12 \div 3 = 4$, and the number is $4 \times 20 = 80$.

46. 100
20% is $\frac{1}{5}$, so the number is $20 \times 5 = 100$.

47. 300
40% is $\frac{2}{5}$. So $\frac{1}{5}$ of the number is $120 \div 2 = 60$, and the number is $60 \times 5 = 300$.

48. **(C) 600**
Round: $30 \times 20 = 600$. (Exactly, it is 624.)

49. **(C) 600**
Round: $30 \times 20 = 600$. (Exactly, it is 726.)

50. **(A) 400**
Round: $20 \times 20 = 400$. (Exactly, it is 378.)