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CHAPTER
2

Mental Math and Estimation

Worksheet 1 Mental Addition

Add. Use mental math.

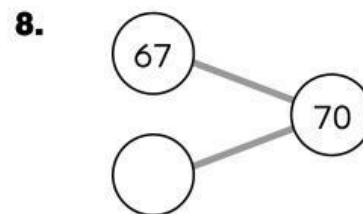
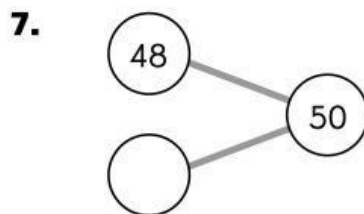
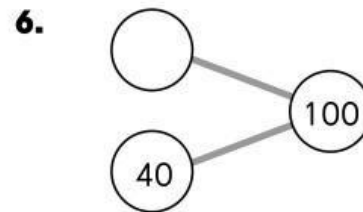
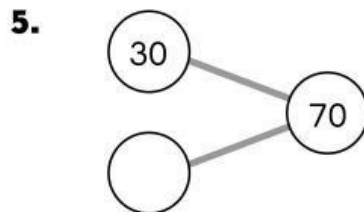
1. $35 + 4 = \underline{\hspace{2cm}}$

2. $43 + 6 = \underline{\hspace{2cm}}$

3. $20 + 50 = \underline{\hspace{2cm}}$

4. $30 + 60 = \underline{\hspace{2cm}}$

Complete each number bond.



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**Add mentally. First add the tens. Then add the ones.
Use number bonds to help you.**

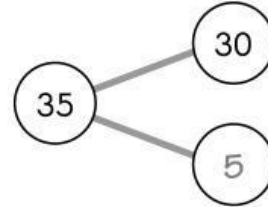
Example

$$42 + 35$$

$$42 + 30 = \underline{72}$$

$$42 + 35 = \underline{72} + 5$$

$$= \underline{77}$$

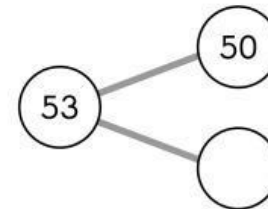


9. $36 + 53$

$$36 + 50 = \underline{\hspace{2cm}}$$

$$36 + 53 = \underline{\hspace{2cm}} + 3$$

$$= \underline{\hspace{2cm}}$$

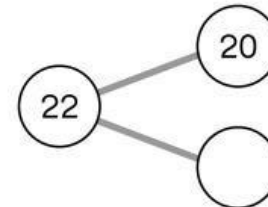


10. $57 + 22$

$$57 + 20 = \underline{\hspace{2cm}}$$

$$57 + 22 = \underline{\hspace{2cm}} + 2$$

$$= \underline{\hspace{2cm}}$$



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Fill in each missing number.

Example

$$37 = 40 - \underline{3}$$

11. $58 = 60 - \underline{\hspace{2cm}}$

12. $69 = \underline{\hspace{2cm}} - 1$

13. $87 = \underline{\hspace{2cm}} - 3$

**Add mentally. First add the tens. Then subtract the extra ones.
Use number bonds to help you.**

Example

$$\begin{aligned} 45 + 28 &= 75 - \underline{2} \\ &= \underline{73} \end{aligned}$$

14. $53 + 39 = 93 - \underline{\hspace{2cm}}$
 $\hspace{10em} = \underline{\hspace{2cm}}$

15. $34 + 47 = 84 - \underline{\hspace{2cm}}$
 $\hspace{10em} = \underline{\hspace{2cm}}$

16. $62 + 18 = 82 - \underline{\hspace{2cm}}$
 $\hspace{10em} = \underline{\hspace{2cm}}$

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Fill in the missing numbers.

Example

$$36 + 39 = \underline{76} - 1$$

17. $47 + 27 = \underline{\hspace{2cm}} - 3$

18. $58 + 38 = \underline{\hspace{2cm}} - 2$

19. $54 + 26 = \underline{\hspace{2cm}} - 4$

Add. Use mental math.

20. $45 + 48 = \underline{\hspace{2cm}}$

21. $56 + 27 = \underline{\hspace{2cm}}$

22. $33 + 49 = \underline{\hspace{2cm}}$

23. $24 + 46 = \underline{\hspace{2cm}}$

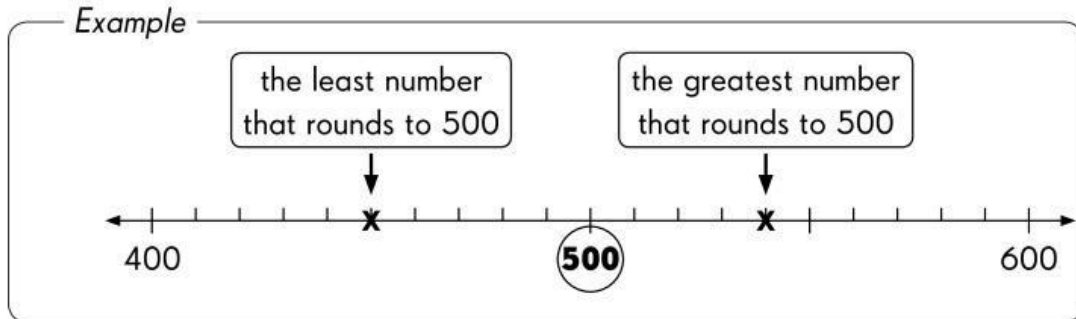
24. $78 + 18 = \underline{\hspace{2cm}}$

25. $47 + 39 = \underline{\hspace{2cm}}$

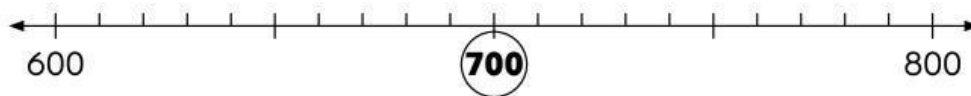
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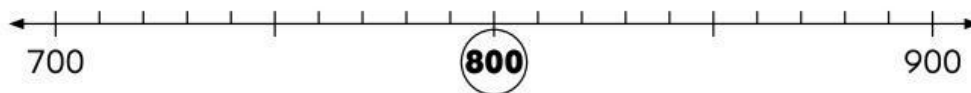
Mark the least number that rounds to the circled number with an X.
Mark the greatest number that rounds to the circled number with an X.



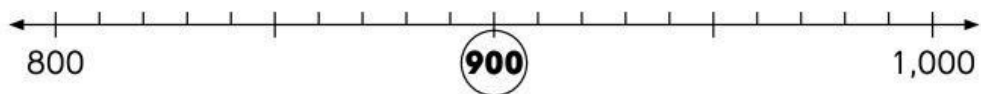
11.



12.



13.



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Find the sum. Then round to the nearest ten to check that your answer is reasonable.

Example

$$78 + 27 = \underline{105}$$

78 is about 80.

27 is about 30.

$$80 + 30 = \underline{110}$$

105 is close to 110, so the answer is reasonable.

14. $64 + 73 = \underline{\hspace{2cm}}$

64 is about _____.

73 is about _____.

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

15. $75 + 93 = \underline{\hspace{2cm}}$

75 is about _____.

93 is about _____.

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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Find the sum. Then round to the nearest hundred to check that your answer is reasonable.

Example

$$267 + 451 = \underline{718}$$

$$267 + 451 \text{ is about } 300 + 500 = \underline{800}.$$

718 is close to 800, so the answer is reasonable.

16. $553 + 292 = \underline{\hspace{2cm}}$

$$553 + 292 \text{ is about } \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

17. $346 + 128 = \underline{\hspace{2cm}}$

$$346 + 128 \text{ is about } \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

18. $336 + 119 = \underline{\hspace{2cm}}$

$$336 + 119 \text{ is about } \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

19. $584 + 329 = \underline{\hspace{2cm}}$

$$584 + 329 \text{ is about } \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

20. $118 + 293 = \underline{\hspace{2cm}}$

$$118 + 293 \text{ is about } \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

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Find the difference. Then round to check that your answer is reasonable.

Example

$$82 - 37 = \underline{45}$$

$$82 - 37 \text{ is about } 80 - 40 = \underline{40}.$$

45 is close to 40, so the answer is reasonable.

21. $75 - 43 = \underline{\hspace{2cm}}$

$$75 - 43 \text{ is about } \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

22. $438 - 249 = \underline{\hspace{2cm}}$

$$438 - 249 \text{ is about } \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

23. $674 - 492 = \underline{\hspace{2cm}}$

$$674 - 492 \text{ is about } \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

24. $918 - 374 = \underline{\hspace{2cm}}$

$$918 - 374 \text{ is about } \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

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Worksheet 5 Using Front-End Estimation

Find the sum or the difference.

Then use front-end estimation to check that your answer is reasonable.

Example

$$217 + 486 = \underline{703}$$

$$217 + 486 \text{ is about } \underline{200} + \underline{400} = \underline{600}.$$

The answer 703 is reasonable.

1. $614 + 283 = \underline{\hspace{2cm}}$

$$614 + 283 \text{ is about } \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

2. $713 - 398 = \underline{\hspace{2cm}}$

$$713 - 398 \text{ is about } \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

3. $937 - 489 = \underline{\hspace{2cm}}$

$$937 - 489 \text{ is about } \underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

4. $184 + 462 = \underline{\hspace{2cm}}$

$$184 + 462 \text{ is about } \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}.$$

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5. $327 + 968 =$ _____

$327 + 968$ is about _____ + _____ = _____.

6. $694 - 294 =$ _____

$694 - 294$ is about _____ - _____ = _____.

7. $908 - 702 =$ _____

$908 - 702$ is about _____ - _____ = _____.

8. $693 + 194 =$ _____

$693 + 194$ is about _____ - _____ = _____.
