

Name: \_\_\_\_\_

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CHAPTER  
**2**

## Mental Math and Estimation

### Worksheet 1 Mental Addition

**Add. Use mental math.**

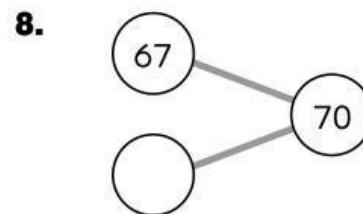
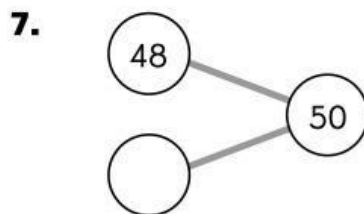
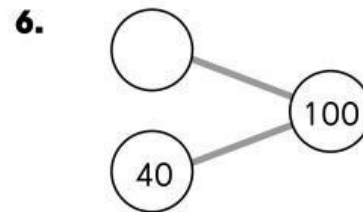
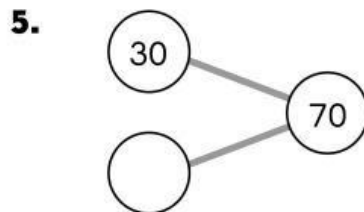
1.  $35 + 4 = \underline{\hspace{2cm}}$

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.**

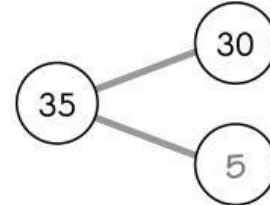
*Example*

$$42 + 35$$

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

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

$$= \underline{77}$$

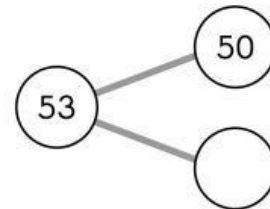


**9.**  $36 + 53$

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

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

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

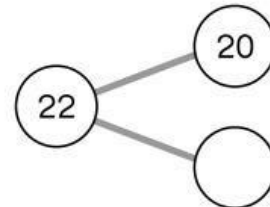


**10.**  $57 + 22$

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

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

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



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

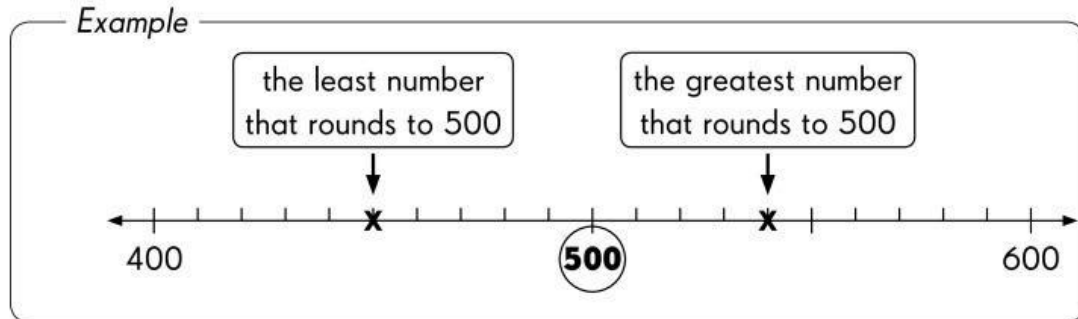
**24.**  $78 + 18 = \underline{\hspace{2cm}}$

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

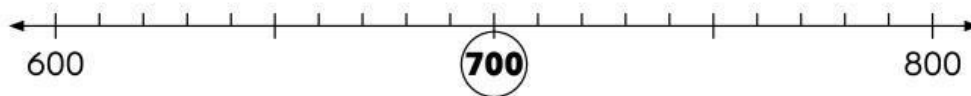
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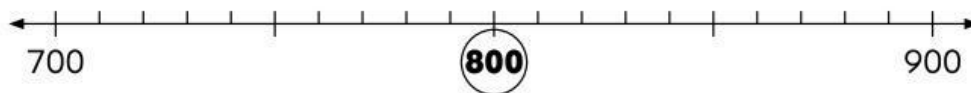
**Mark the least number that rounds to the circled number with an X.**  
**Mark the greatest number that rounds to the circled number with an X.**



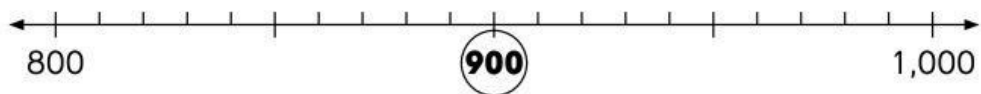
**11.**



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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**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 \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_.

\_\_\_\_\_