

**5th Mathematics Achievement Test
Number, Number Sense and Operations**

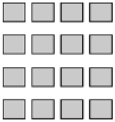
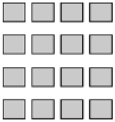
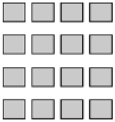
Benchmark A

Question 27	March 2008		C
Question 28	March 2006		A
Question 14	Spring 2007		A

Benchmark B

Question 6	Spring 2009		C										
Question 10	March 2006	<table border="1"> <thead> <tr> <th colspan="2">Scoring Guidelines</th> </tr> <tr> <th>Points</th> <th>Student Response</th> </tr> </thead> <tbody> <tr> <td>2</td> <td> <p>The focus of this task is identifying and generating equivalent forms of fractions, decimals or percents. The response correctly converts the numbers to the same form (all fractions or all decimals or all percents), OR correctly compares the amounts off with adequate evidence AND chooses the first store as having the best sale.</p> <p>Sample responses:</p> <ul style="list-style-type: none"> Store 1 = $33\frac{1}{3}\%$ or 33% off, Store 2 = 20% off, Store 3 = 25% off. Store 1 gives the most off, because it has the largest percent off. Store 1 = $\frac{1}{3}$ off, Store 2 = $\frac{1}{5}$ off and Store 3 = $\frac{1}{4}$ off. Store 1 gives the most off because it has the largest fraction. <p>Store 1 = .3 or 0.33 off, Store 2 = .20 off, Store 3 = .25 off. Store 1 gives the most off, because it has the largest decimal.</p> </td> </tr> <tr> <td>1</td> <td> <p>The response provides partial evidence of identifying and generating equivalent forms of fractions, decimals or percents; however, the solution may be incomplete or slightly flawed.</p> <p>For example, the response may:</p> <ul style="list-style-type: none"> Provide correct conversions of the numbers to the same form without an explanation. Provide correct store with no supporting work. Provide incorrect conversions of one of the numbers, but find the best sale based on the incorrect calculation. </td> </tr> <tr> <td>0</td> <td> <p>The response provides inadequate evidence of identifying and generating equivalent forms of fractions, decimals or percents. The response provides major flaws in reasoning or irrelevant information.</p> <p>For example, the response may:</p> <ul style="list-style-type: none"> Compare two stores, without identifying correct store. Be blank or state unrelated statements. Recopy information from the stem. </td> </tr> </tbody> </table>	Scoring Guidelines		Points	Student Response	2	<p>The focus of this task is identifying and generating equivalent forms of fractions, decimals or percents. The response correctly converts the numbers to the same form (all fractions or all decimals or all percents), OR correctly compares the amounts off with adequate evidence AND chooses the first store as having the best sale.</p> <p>Sample responses:</p> <ul style="list-style-type: none"> Store 1 = $33\frac{1}{3}\%$ or 33% off, Store 2 = 20% off, Store 3 = 25% off. Store 1 gives the most off, because it has the largest percent off. Store 1 = $\frac{1}{3}$ off, Store 2 = $\frac{1}{5}$ off and Store 3 = $\frac{1}{4}$ off. Store 1 gives the most off because it has the largest fraction. <p>Store 1 = .3 or 0.33 off, Store 2 = .20 off, Store 3 = .25 off. Store 1 gives the most off, because it has the largest decimal.</p>	1	<p>The response provides partial evidence of identifying and generating equivalent forms of fractions, decimals or percents; however, the solution may be incomplete or slightly flawed.</p> <p>For example, the response may:</p> <ul style="list-style-type: none"> Provide correct conversions of the numbers to the same form without an explanation. Provide correct store with no supporting work. Provide incorrect conversions of one of the numbers, but find the best sale based on the incorrect calculation. 	0	<p>The response provides inadequate evidence of identifying and generating equivalent forms of fractions, decimals or percents. The response provides major flaws in reasoning or irrelevant information.</p> <p>For example, the response may:</p> <ul style="list-style-type: none"> Compare two stores, without identifying correct store. Be blank or state unrelated statements. Recopy information from the stem. 	
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Question 40	March 2006		B										
Question 32	Spring 2007		B										

Benchmark D

Question 1	March 2008		B												
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Question 35	March 2006		A												
Question 2	Spring 2007		C												
Question 28	Spring 2007		A												

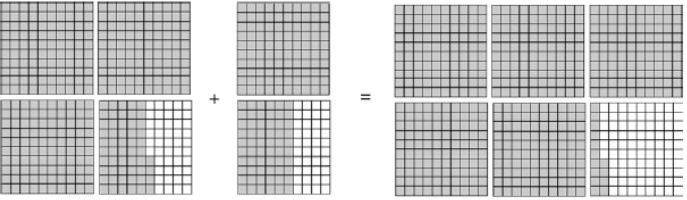
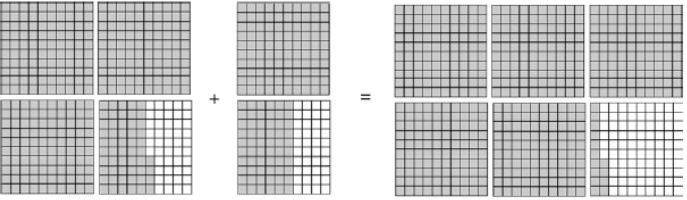
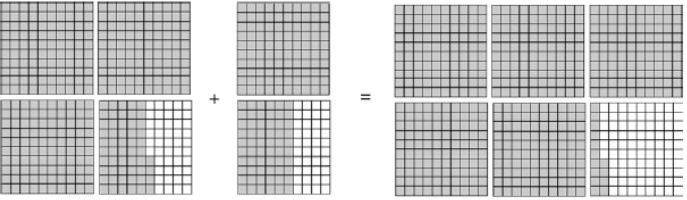
Benchmark E

Question 9	Spring 2009		D
Question 23	March 2006		C

Benchmark F

Question 44	Spring 2009		D
Question 46	March 2006		D

Benchmark H

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Benchmark I

Question 37	Spring 2009		B
Question 40	Spring 2009		C
Question 39	March 2008		A
Question 7	March 2006		B

Benchmark I (continued)

Question 20	March 2006	Scoring Guidelines	
		Points	Student Response
		4 point text	<p>The focus of this task is using an estimation strategy to solve a problem and determine the reasonableness of the result. The response provides a reasonable estimate for the number of miles biked from Monday through Saturday with an adequate explanation or supporting work. The response also gives an adequate explanation of the reasonableness of the mother's estimate.</p> <p>Sample response:</p> <ul style="list-style-type: none"> • 0.87 is almost 1 mile • 1.8 is almost 2 miles • 0.92 is almost 1 mile • $1 + 2 + 1 = 4$; $4 \times 5 = 20$ miles • 0.92 is almost 1 mile • $1 \times 2 = 2$; $20 + 2 = 22$ miles <p>Total for the week is 22 miles. Her mother's estimate is not reasonable because 22 is less than 30.</p> <p>NOTE: Rounding distances to nearest tenth is an acceptable estimation strategy.</p>
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Question 26	March 2006		

B

Question 37	March 2006									
Question 42	Spring 2007	<p>Scoring Guidelines</p> <table border="1"> <thead> <tr> <th>Points</th> <th>Student Response</th> </tr> </thead> <tbody> <tr> <td>2 point</td> <td> <p>The focus of this task is identifying and using relationships between operations to solve problems. The response provides two correct number sentences using different operations.</p> <p>Exemplar Response:</p> <ul style="list-style-type: none"> • $28 + n = 64$ and $64 - 28 = n$, where n is the number of brownies still needed for the bake sale. • $28 + \quad = 64$ and $64 - \quad = 28$. • $64 - 28 = 36$ and $28 + 36 = 64$. </td> </tr> <tr> <td>1 point</td> <td> <p>The response provides partial evidence of identifying and using relationships between operations to solve problems; however, the solution may be incomplete or slightly flawed.</p> <p>Sample answer: For example, the response may:</p> <ul style="list-style-type: none"> • Provide one correct number sentence, but the other may be missing or have flaws. • Provide two correctly related number sentences but have computational errors. </td> </tr> <tr> <td>0 point</td> <td> <p>The response provides inadequate evidence of identifying and using relationships between operations to solve problems. The response provides major flaws in reasoning or irrelevant information.</p> <p>Sample answer: For example, the response may:</p> <ul style="list-style-type: none"> • Provide number sentences that are incorrect, such as 64×28 and 28×64. • Be blank or provide unrelated statements. • Copy information from the stem. </td> </tr> </tbody> </table>	Points	Student Response	2 point	<p>The focus of this task is identifying and using relationships between operations to solve problems. The response provides two correct number sentences using different operations.</p> <p>Exemplar Response:</p> <ul style="list-style-type: none"> • $28 + n = 64$ and $64 - 28 = n$, where n is the number of brownies still needed for the bake sale. • $28 + \quad = 64$ and $64 - \quad = 28$. • $64 - 28 = 36$ and $28 + 36 = 64$. 	1 point	<p>The response provides partial evidence of identifying and using relationships between operations to solve problems; however, the solution may be incomplete or slightly flawed.</p> <p>Sample answer: For example, the response may:</p> <ul style="list-style-type: none"> • Provide one correct number sentence, but the other may be missing or have flaws. • Provide two correctly related number sentences but have computational errors. 	0 point	<p>The response provides inadequate evidence of identifying and using relationships between operations to solve problems. The response provides major flaws in reasoning or irrelevant information.</p> <p>Sample answer: For example, the response may:</p> <ul style="list-style-type: none"> • Provide number sentences that are incorrect, such as 64×28 and 28×64. • Be blank or provide unrelated statements. • Copy information from the stem.
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