

## MathWorks 10 Teacher Resource

### Errata

Printings of *MathWorks 10 Teacher Resource* contain the following errors. We apologize for any inconvenience these may have caused.

<b>MathWorks 10 Teacher Resource Errors</b>	
<b>Page no.</b>	<b>Correction</b>
60	<p>#1b) For clarity, the question should be written as:</p> <p style="padding-left: 40px;">“Fill in the table indicating the total cost according to the number of people attending, and show your calculations below.”</p>
61	<p>#3b) At the end of the question, the following should be added:</p> <p style="padding-left: 40px;">“(Remember that the cans are only available in the quantities given above.)”</p>
62	<p>Part A: Multiple Choice, #1</p> <p>In the final line of the calculation for Store B, the calculation should be:</p> $\$13.00 \times 3 = \$39.00$
62	<p>Part B: Short Answer, #1a)</p> <p>The solution should be:</p> $\frac{\$69.07}{10 \text{ tiles}} = \$6.91/\text{tile}$
63	<p>#3b) The solution should be replaced with:</p> <p style="padding-left: 40px;">“Calculate how many 24-can cases can be bought for \$500.00.  <math>\\$500.00 \div \\$30.69 \approx 16.3</math></p> <p style="padding-left: 40px;">You cannot buy partial cases of soup, so the answer must be rounded down.            Calculate how many cans of soup are in 16 cases.  <math>16 \times 24 = 384</math></p> <p style="padding-left: 40px;">The school can buy 384 cans of soup.”</p>
64	<p>#5b) The final steps of the solution should be replaced with:</p> <p style="padding-left: 40px;">“Then consider the difference in fuel costs per kilometre.  <math>\\$0.127 \text{ 72} - \\$0.111 \text{ 24} = \\$0.016 \text{ 48}</math></p> <p style="padding-left: 40px;">If you save 1.648 cents per kilometre by driving the hybrid model, how many kilometres do you need to drive to save \$1384.00?</p> $\frac{\$1384.00}{\$0.016 \text{ 48}} \approx 83 \text{ 981}$ <p style="padding-left: 40px;">You would need to drive 83 981 km to save enough in fuel costs to pay the extra cost of the hybrid model.”</p>

<b>MathWorks 10 Teacher Resource Errors</b>	
<b>Page no.</b>	<b>Correction</b>
96	Build Your Skills #3, Method 1, first paragraph The last sentence should read: “See p. 92 for an additional discussion of calculating weeks in a month.”
96	Build Your Skills #3, Method 2, first paragraph The last sentence should read: “...dividing by 12 to find the average number of hours he worked in a month.”
120	#10 The second sentence should be revised to read: “...and \$40.00 for parking, which is not tax-deductible.”
123	#9 The following note should be added: “Answers below are for the 2008 taxation year.”
123	#10 The following note should be added: “Answers below are for the 2008 taxation year.”  The calculation should be revised as follows:  “Subtract before-tax deductions from the gross earnings. $\$3425.00 - \$15.00 - \$225.00 = \$3185.00$  Look up the tax tables for Saskatchewan. Federal tax:       \$318.25 SK tax:             \$245.50”
184	#3 The possible answers should be rounded to the nearest square yard. a) 67 yd <sup>2</sup> b) 62 yd <sup>2</sup> c) 81 yd <sup>2</sup> d) 90 yd <sup>2</sup>
188	#3c) The final calculation should be rounded to the nearest square yard. Area:    8.20 yd × 9.84 yd ≈ 81 yd <sup>2</sup>
252	#3  The multiple-choice answer b) should be 7.
255	#3 The answer should be revised as follows: b) $C = \frac{5}{9}(F - 32)$ $C = \frac{5}{9}(45 - 32)$ $C = \frac{5}{9}(13)$ $C \approx 7$ 45 degrees Fahrenheit is approximately 7 degrees Celsius.

<b>MathWorks 10 Teacher Resource Errors</b>	
<b>Page no.</b>	<b>Correction</b>
291	<p>Mental Math and Estimation</p> <p>Answers b) and d) should be revised as follows:</p> <p>b) Students will be able to see instantly that this angle is more than <math>180^\circ</math>, but not quite big enough to add another <math>45^\circ</math>. So they may describe it as a straight angle (<math>180^\circ</math>) plus about two-thirds of a right angle (<math>60^\circ</math>), and come up with a close estimate of <math>240^\circ</math>.</p> <p>d) The acute angle in the top left corner is approximately <math>45^\circ</math>. The obtuse angle in the lower left corner can be estimated as a right angle plus about a <math>45^\circ</math> angle, so a close estimate will be about <math>135^\circ</math>.</p>
296	<p>5.2 Build Your Skills #4</p> <p>The answers for <math>\angle B</math> and <math>\angle C</math> should be revised as follows:</p> <p style="padding-left: 40px;"><math>\angle B</math> measures <math>120^\circ</math>. The bisected angle is <math>60^\circ</math>.</p> <p style="padding-left: 40px;"><math>\angle C</math> measures <math>140^\circ</math>. The bisected angle is <math>70^\circ</math>.</p>
319	<p>#1d) The answer should be revised as follows:</p> <p style="padding-left: 40px;">“Answers will vary based on students’ drawings. The distance to be travelled is approximately 388 m at a true bearing of <math>64^\circ</math>.”</p>
370	<p>Part B: Short Answer, #1</p> <p>Change the question to read: “The figure MNOP is similar to ABCD and was created using a scale factor of <math>\frac{2}{3}</math>.”</p> <p>The diagrams are not drawn to scale. This will be corrected in future printings.</p>
375	<p>Part B: Short Answer #1b):      Change the first sentence to read:</p> <p style="padding-left: 40px;">“Each of the side lengths should be multiplied by <math>\frac{2}{3}</math>.”</p>
377	<p>Blackline Master 6.1: The following items should be added to the checklist:</p> <ul style="list-style-type: none"> <li>• A sketch or computer-generated visual tour of your room</li> <li>• A separate sheet of paper with your calculations that includes the measurements of each piece of gaming equipment or furniture in your room</li> <li>• The sizes of your scale diagrams and how you calculated those sizes</li> <li>• Other notes</li> </ul>

<b>MathWorks 10 Teacher Resource Errors</b>	
<b>Page no.</b>	<b>Correction</b>
422	<p>Diagram 3, Method 2 (right-hand column, just above Alternative Solution)</p> <p>The calculation should be as follows:</p> $\sin R = \frac{r}{t}$ $0.4318 = \frac{2.6}{t}$ $t \times 0.4318 = \frac{2.6}{t} \times t$ $\frac{0.4318t}{0.4318} = \frac{2.6}{0.4318}$ $t \approx 6.0$
428	<p>#3 The link to the National Film Board of Canada website should be:</p> <p><a href="http://www.nfb.ca">http://www.nfb.ca</a></p>
429	<p>#6 The Pythagorean theorem calculation should be as follows:</p> $h^2 + \ell^2 = c^2$ $1^2 + \ell^2 = 3^2$ $1 + \ell^2 = 9$ $\ell^2 = 8$ $\ell = \sqrt{8}$ $\ell \approx 2.8$