

MathWorks 10 Workbook

Errata

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

MathWorks 10 Workbook Errors	
Page no.	Correction
111	<p>Example 1 The final steps of the solution should be replaced with the following.</p> <p>EI:</p> $1.8 \div 100 = 0.018$ $0.018 \times \$805.14 = \14.49 <p>Alphonso's net income will be taxable income minus these deductions.</p> $\$805.14 - \$130.42 - \$43.48 - \$39.85 - \$14.49 = \576.89 <p>Alphonso's net income will be \$576.89.</p>
151	<p>Build Your Skills #9 should be replaced with the following question.</p> <p>Jerg is finishing the sides and bottom of a hot tub with tiles. The hot tub is 6'11" long, 5'6" wide, and 3' deep. How many square feet of tile will Jerg need?</p>
160– 161	<p>Example 2 The solution should be replace with the following.</p> <p>Convert the dimensions of the area to be covered from metres to yards using this conversion information from p. 132: 1 yd \approx 0.9 m</p> <p>Length:</p> $\frac{\ell \text{ yd}}{10.8 \text{ m}} \approx \frac{1 \text{ yd}}{0.9 \text{ m}}$ $\frac{\ell}{10.8} \approx \frac{1}{0.9}$ $10.8 \left(\frac{\ell}{10.8} \right) \approx \left(\frac{1}{0.9} \right) 10.8$ $\ell \approx \frac{10.8}{0.9}$ $\ell \approx 12.0$ <p>The area to be covered with topsoil has a length of about 12.0 yd.</p> <p><i>(continued on following page)</i></p>

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160– 161	<p>Width:</p> $\frac{w \text{ yd}}{9.5 \text{ m}} \approx \frac{1 \text{ yd}}{0.9 \text{ m}}$ $\frac{w}{9.5} \approx \frac{1}{0.9}$ $9.5 \left(\frac{w}{9.5} \right) \approx \left(\frac{1}{0.9} \right) 9.5$ $w \approx \frac{9.5}{0.9}$ $w \approx 10.6$ <p>The area to be covered with topsoil has a width of about 10.6 yd.</p> <p>Depth:</p> $\frac{h \text{ yd}}{0.1 \text{ m}} \approx \frac{1 \text{ yd}}{0.9 \text{ m}}$ $\frac{h}{0.1} \approx \frac{1}{0.9}$ $0.1 \left(\frac{h}{0.1} \right) \approx \left(\frac{1}{0.9} \right) 0.1$ $h \approx \frac{0.1}{0.9}$ $h \approx 0.1$ <p>The area to be covered with topsoil has a depth of about 0.1 yd.</p> <p>Calculate the volume in cubic yards.</p> $V = \ell wh$ $V \approx 12.0 \times 10.6 \times 0.1$ $V \approx 12.7 \text{ yd}^3$ <p>Paulino needs 12.7 yd³ of topsoil, but soil is only sold in multiples of $\frac{1}{2} \text{ yd}^3$, so he will need to purchase 13 yd³ of soil. Multiply the cost per cubic yard by the number of cubic yards needed.</p> $13 \text{ yd}^3 \times \$18.75/\text{yd}^3 = \243.75 <p>The topsoil will cost \$243.75.</p>
268	<p>Example 2 The final line of the calculation should read:</p> $\frac{2}{3} \neq \frac{3}{4}$

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342	1.1 Proportional Reasoning, Build Your Skills #3 The answers to a) and b) were reversed. The answers should be: a) 1500 mL b) 500 mL
349	3.3 Build Your Skills #9, the answer should be: 112.5 sq ft
Additionally, the distinction between <i>weight</i> and <i>mass</i> is inconsistent in the resource and affects several pages. The corrections are as follows:	
21	Build Your Skills #17, the last sentence should say: “If paper has a mass of 4.9 kg for every 500 sheets, what is the mass of 700 sheets of paper?”
195	New Skills, first paragraph should say: “In the Système International (SI), the kilogram is the basic unit of mass, but it is often used for weight as well. The correct unit of weight in the SI is the Newton. Here, you will work with mass.”
195	Example 1, question, second sentence, should say: “If you double the recipe, what is the total mass of the dry ingredients?” Example 1, solution: Change “weights” to “masses” (three instances).
196	Build Your Skills #1 should say: “What is the total mass of a loaded truck if the truck has a mass of 2.6 tonnes and it is loaded with 15 skids of boxes that have masses of 210 kilograms each? Give your answer in tonnes.”
196	Build Your Skills #2, second sentence: Change “weigh” to “have masses of.”
197	New Skills, first sentence should say: “In this section, you will need to work with the relationship between the SI and the imperial units of weight/mass.”
197	Example 2, question, third sentence should say: “The bag of apples she bought only shows the mass in kilograms.”
198	Build Your Skills #5 should say: “A baby weighed 7 pounds 12 ounces at birth. What is its mass in grams?”
198	Build Your Skills #6 should say: “Chen has a mass of 68 kg. How much does he weigh in pounds?”

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200	Build Your Skills #9 should say: “The dosage of a certain medicine is 0.05 mg/kg of the patient’s mass. Tom weighs 185 lb.”
200	Practise Your New Skills #1 should say: “Convert the following weights/masses.”
201	Practise Your New Skills #3 should say: “Three packages of nuts have masses of 1.2 kg, 0.75 kg, and 1.5 kg. What is the total mass in grams?”
201	Practise Your New Skills #4 should say: “Win has a mass of 78 kg and his dog has a mass of 18 kg. If his truck’s mass is 1.9 t and there are 5 boxes of books each with a mass of 9.8 kg in the truck, what is the total mass of the truck, including Win, his dog, and the books?”
202	Practise Your New Skills #5 should say: “Karen is making a batch of potato soup. She needs 8 potatoes, and each potato is about 375 g. How many pounds of potatoes does she need?”
203	New Skills heading should say: “NEW SKILLS: WORKING WITH CONVERSIONS BETWEEN MEASURES OF VOLUME AND WEIGHT/MASS”
203	New Skills, second paragraph, first sentence should say: “Here, you will convert from a unit of volume to a unit of weight or mass.”
204	Build Your Skills #1, second sentence should say: “...what is the weight or mass of the sunflower seeds?”
205	Build Your Skills #6, second sentence should say: “What does this tell you about the relative masses of wheat and sunflower seeds?”
206	New Skills heading should say: “NEW SKILLS: WORKING WITH CONVERSIONS BETWEEN SI AND IMPERIAL UNITS OF WEIGHT/MASS”
206	Build Your Skills #7, third sentence should say: “At the grocery store, the mass of chicken is labelled in kilograms.”
207	Build Your Skills #9 should say: “Josephine is sending a gift of a bottle of maple syrup that weighs 3 lb, and 3 packages of smoked salmon jerky that are each 100 g. If the package’s total mass is less than 2 kg, she can ship it at a cheaper rate. Will she be able to do so? What is the total mass of the package?”

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208	Practise Your New Skills #4, second sentence should say: “If the average mass of an adult is 80 kg, how many average-mass adults can the elevator carry?”
211	Chapter Test #3 should say: “Convert the following weights/masses.”
212	Chapter Test #7, first sentence should say: “A robin’s egg has a mass of about 70 g.”