


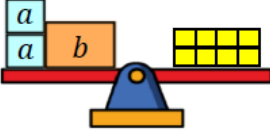
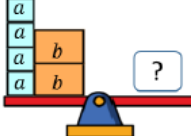
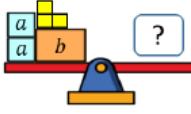


Year 7 Core- Developing Number Sense Answers

<p>1. Tick the calculations that are equivalent to $328 + 97$?</p> <p style="margin-left: 40px;">$328 + 100 - 3$ <input checked="" type="checkbox"/></p> <p style="margin-left: 40px;">$325 + 100$ <input checked="" type="checkbox"/></p> <p style="margin-left: 40px;">$320 + 90 + 8 + 7$ <input checked="" type="checkbox"/></p>	<p>2. Work out $4.6 + 19.9$</p> <p style="text-align: right; margin-right: 20px;"><u>24.5</u></p>												
<p>3. Tick the boxes to show whether the statements are true or false.</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 20%;">True</th> <th style="width: 20%;">False</th> </tr> </thead> <tbody> <tr> <td>$2 \times 4 \times 3 = 4 \times 6$</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>$60 \times 12 = 60 \times 10 \times 2$</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>$12 \times 25 = 3 \times 100$</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>		True	False	$2 \times 4 \times 3 = 4 \times 6$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	$60 \times 12 = 60 \times 10 \times 2$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	$12 \times 25 = 3 \times 100$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>4. Alison buys jeans, a t-shirt and a bracelet.</p> <div style="display: flex; justify-content: space-around; align-items: center; margin-bottom: 10px;"> <div style="text-align: center;"> £19.99</div> <div style="text-align: center;"> £8.99</div> <div style="text-align: center;"> £4.79</div> </div> <p>Find an estimate for the total cost.</p> <p style="text-align: right; margin-right: 20px;"><u>£ 34</u></p> <p>Work out the exact amount she pays.</p> <p style="text-align: right; margin-right: 20px;"><u>£ 33.77</u></p> <p>She pays with two twenty-pound notes. How much change does she receive?</p> <p style="text-align: right; margin-right: 20px;"><u>£ 6.23</u></p> <p>How much more money does she need to buy another t-shirt?</p> <p style="text-align: right; margin-right: 20px;"><u>£ 2.76</u></p>
	True	False											
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<p>5. There are 200 chairs at a school. $\frac{2}{5}$ of the chairs are in the main hall. The rest are shared equally between 4 classrooms.</p> <p>How many chairs are in the main hall?</p> <p style="text-align: right; margin-right: 20px;"><u>80</u></p> <p>How many chairs are in each classroom?</p> <p>$200 - 80 = 120$</p> <p style="text-align: right; margin-right: 20px;"><u>30</u></p>													

Year 7 Core- Developing Number Sense Answers

<p>6. Use $>$, $<$ or $=$ to make the statements correct.</p> <p>$323 + 23$ < $323 + 32$</p> <p>$900 \div 18$ = $100 \div 2$</p> <p>228×5 < 115×10</p>	<p>7. Use the information that $74 \times 29 = 2146$ to find the missing numbers.</p> <p>$7.4 \times 29 = \underline{214.6}$</p> <p>$2146 \div 74 = \underline{29}$</p> <p><u>0.74</u> $\times 2.9 = 2.146$</p>
<p>8. The diagram shows $2a + b = 8$</p> <div style="text-align: center;">  </div> <p>Use the diagrams to help you work out the values of these expressions.</p> <p>$4a + 2b = \underline{16}$</p> <div style="text-align: center;">  </div> <p>$2a + b + 3 = \underline{11}$</p> <div style="text-align: center;">  </div>	
<p>9. Estimate 0.2×436</p> <p>$0.2 \times 436 \approx 0.2 \times 400$</p> <p>$0.2 \times 400 = 400 \times \frac{2}{10}$</p> <p>$= 40 \times 2 = 80$</p>	<p>10. Estimate $\frac{54.3+45}{1.96}$</p> <p>$\frac{54.3 + 45}{1.96} \approx \frac{50 + 50}{2} = 50$</p>

Year 7 Higher – Developing Number Sense Answers

<p>1.</p> <p>a) $2.4 \div 4 =$ 0.6 c) $0.32 \div 8 =$ 0.04</p> <p>b) $3.2 \times 3 =$ 9.6 d) $1.7 \times 7 =$ 11.9</p>	<p>2.</p> <div style="border: 1px solid black; width: 60px; height: 30px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> 18 </div>
<p>3.</p> <p>e.g. $16 \times 5 \times 10$</p> <hr style="border: 0.5px solid black; margin: 5px 0;"/> <p style="text-align: center;">$4 \times 25 \times 4 \times 2$</p> <hr style="border: 0.5px solid black; margin: 5px 0;"/> <p style="text-align: center;">$8 \times 2 \times 50$</p>	<p>4.</p> <p>a) $170 \times 39 =$ 6,630</p> <p>b) $17 \times 390 =$ 6,630</p> <p>c) $1.7 \times 39 =$ 66.3</p> <p>d) $3.9 \times 17 =$ 66.3</p>
<p>5.</p> <div style="display: flex; justify-content: space-around; align-items: center; margin-bottom: 10px;"> <div style="border: 1px solid black; padding: 5px; background-color: #e0e0ff; border-radius: 10px;"> $\frac{n}{2} - 3 = 2$ </div> <div style="border: 1px solid black; padding: 5px; background-color: #e0ffe0; border-radius: 10px;"> $n = 10$ </div> </div> <p>$\frac{n}{4} = \frac{5}{2}$ $2n = 20$</p>	<p>6.</p> <p style="font-size: 1.5em; color: red; margin: 0;">120</p>