

Name: Key
Class: _____

Show What You Know Assessment – Part B

1. Write each number in Standard Form. (4 marks)

- a) 2 and 12 ten-thousandths 2.0012
- b) 7 millionths 0.000007
- c) 16 and 46 hundred-thousandths 16.00046
- d) 1 and 51 millionths 1.000051

2. How are the values of the underlined digits in each number related? (4 marks)

- a) 0.626 0.6 is 100x bigger than 0.006
- b) 5.48948 0.08 is 1000x bigger than 0.00008
- c) 0.000355 0.00005 is 10x bigger than 0.000005
- d) 9.39 9 is 100x bigger than 0.09

3. The Bigleaf Maple tree is native to the Queen Charlotte Islands. It produces winged seeds that can be carried long distances by the wind. A seed has a mass of about 0.126 582g. Write this number as many ways as you can. (6 marks)

① = 1 tenth + 2 hundredths + 6 thousandths +
5 ten thousandths + 8 hundred thousandths +
2 millionths

② = 0.1 + 0.02 + 0.006 + 0.0005 + 0.00008
+ 0.000002

③ One hundred twenty-six thousandths five hundred
eighty-two millionths

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4. Estimate and then tell if your estimate is an overestimate or an underestimate. (6 marks) **you can estimate using different whole numbers*

a) $6.23 \times 4 = 24$ under d) $21.872 \times 3 = 60$ under

b) $9.49 \times 7 = 63$ under e) $18.39 \div 3 = 6$ under

c) $125.431 \div 5 = 25$ under f) $19.8 \div 4 = 5$ over

5. The decimal point is missing in each product. Rewrite the product and place the decimal point in the correct spot. (6 marks)

a) $6.9 \times 7 = 483$

$7 \times 7 = 49$ 48.3

b) $7.53 \times 3 = 2259$

$7 \times 3 = 21$ 22.59

c) $11.288 \times 4 = 45152$

$11 \times 4 = 44$ 45.152

d) $2.307 \times 5 = 11535$

$2 \times 5 = 10$ 11.535

e) $3.005 \times 4 = 1202$

$3 \times 4 = 12$ 12.02

f) $4.916 \times 5 = 2458$

$5 \times 5 = 25$ 24.58

6. The Giant Fan Palm produces the world's largest seed. A seed has a mass of about 9.075 kg. What is the combined mass of 6 of these seeds? (3 marks)

$6 \times 9.075 =$
$$\begin{array}{r} 9.075 \\ \times \quad 6 \\ \hline 54.450 \end{array}$$

The combined mass of 6 seeds is 54.45 kg

7. Multiply (6 marks)

a) 0.321×6

$$\begin{array}{r} 0.321 \\ \times \quad 6 \\ \hline 1.926 \end{array}$$

b) 0.0249×5

$$\begin{array}{r} 0.0249 \\ \times \quad 5 \\ \hline 0.1245 \end{array}$$

c) 0.0043×7

$$\begin{array}{r} 0.0043 \\ \times \quad 7 \\ \hline 0.0301 \end{array}$$

8. The recipe Sebastian wants to make requires 1.5 L of evaporated milk. He has four 0.385 L cans. Does he have enough milk? (3 marks)

$$\begin{array}{r} 0.385 \\ \times \quad 4 \\ \hline 1.540 \end{array}$$

yes he will have enough

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9. Estimate each quotient. (6 marks)

a) $36.57 \div 6$ 6

b) $22.41 \div 4$ 5

c) $4.189 \div 2$ 2

d) $42.3 \div 9$ 5

e) $8.27 \div 4$ 2

f) $7.1348 \div 8$ 1

10. Estimate to choose the correct quotient for each division question. (3 marks)

	Question	Possible Quotients		
a)	$9.348 \div 3$	3.116	31.16	311.6
b)	$52.925 \div 5$	0.105 85	1.0585	10.585
c)	$1.888 \div 8$	0.236	2.36	23.6

11. James Steacy of Saskatoon won the silver medal in the men's discus throw at the 2006 Commonwealth Games in Melbourne, Australia. In the finals, James threw the discus 6 times for a total distance of 431.94 m. About how far did he throw each discus? (3 marks)

$$432 \div 6 = 72$$

About 72m each throw

12. Divide. (12 marks)

a) $24.15 \div 6$

$$\begin{array}{r} 4.025 \\ 6 \overline{) 24.15} \\ \underline{24} \\ 015 \\ \underline{12} \\ 3 \end{array}$$

b) $31.87 \div 8$

$$\begin{array}{r} 3.98375 \\ 8 \overline{) 31.87} \\ \underline{24} \\ 78 \\ \underline{72} \\ 67 \\ \underline{64} \\ 3 \end{array}$$

c) $9.3 \div 6$

$$\begin{array}{r} 1.55 \\ 6 \overline{) 9.3} \\ \underline{6} \\ 33 \\ \underline{30} \\ 3 \end{array}$$

e) $14.523 \div 4$

$$\begin{array}{r} 3.63075 \\ 4 \overline{) 14.523} \\ \underline{12} \\ 25 \\ \underline{24} \\ 12 \\ \underline{12} \\ 03 \end{array}$$

e) $3.5 \div 9$

$$\begin{array}{r} 0.3888 \\ 9 \overline{) 3.50} \\ \underline{27} \\ 80 \\ \underline{72} \\ 8 \end{array}$$

f) $11.68 \div 9$

$$\begin{array}{r} 1.2977 \\ 9 \overline{) 11.68} \\ \underline{9} \\ 26 \\ \underline{18} \\ 88 \\ \underline{81} \\ 7 \end{array}$$

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13. The Coulter Pine produces the world's most massive pine cones. The combined mass of 8 of these cones is 25.259 kg. Find the mass of one Coulter Pine cone to the nearest hundredth of a kilogram. (3 marks)

$$\begin{array}{r} 3.157 \\ 8 \overline{) 25.259} \\ \underline{24} \\ 12 \\ \underline{8} \\ 45 \\ \underline{40} \\ 59 \\ \underline{56} \\ 3 \end{array}$$

3.157

3.16 kg

14. Divide. (12 marks)

a) $0.58 \div 8$

$$\begin{array}{r} 0.072 \text{ R}4 \\ 8 \overline{) 0.580} \\ \underline{56} \\ 20 \\ \underline{16} \\ 4 \end{array}$$

b) $0.066 \div 4$

$$\begin{array}{r} 0.016 \text{ R}2 \\ 4 \overline{) 0.066} \\ \underline{4} \\ 26 \\ \underline{24} \\ 2 \end{array}$$

c) $0.142 \div 8$

$$\begin{array}{r} 0.017 \text{ R}6 \\ 8 \overline{) 0.142} \\ \underline{8} \\ 62 \\ \underline{56} \\ 6 \end{array}$$

f) $0.0075 \div 6$

$$\begin{array}{r} 0.0012 \text{ R}3 \\ 6 \overline{) 0.0075} \\ \underline{6} \\ 15 \\ \underline{12} \\ 3 \end{array}$$

e) $0.081 \div 6$

$$\begin{array}{r} 0.013 \text{ R}3 \\ 6 \overline{) 0.081} \\ \underline{6} \\ 21 \\ \underline{18} \\ 3 \end{array}$$

f) $0.09 \div 5$

$$\begin{array}{r} 0.01 \text{ R}4 \\ 5 \overline{) 0.09} \\ \underline{5} \\ 4 \end{array}$$

15. Darcy takes one chewable multivitamin each morning. Each week, Darcy gets 0.0119 g of riboflavin from the vitamins. How much riboflavin is in one multivitamin? Show your work. (3 marks)

$$\begin{array}{r} 0.0017 \\ 7 \overline{) 0.0119} \\ \underline{7} \\ 49 \end{array}$$

He gets 0.0017g
in one multivitamin