

Master Maths 9 Worksheet 2

Whole Numbers 2

2

Name: _____

1. Write the following numbers as products of their prime factors in index form.

Example: $72 = 2^3 \times 3^2$

(a) 168 (b) 2160

2. Complete the following tables showing conversions to and from roman numerals.

Number	Roman Numeral	Number	Roman Numeral
29			XXII
33			XXXIX
49			LVI
87			XCIV
152			CXVII
229			CCCXVII
469			DLXVII
880			CMXLI
1383			MMDCLXXV
2697			MMCMXLIV

3. Without using a calculator evaluate the following.

(a) $\sqrt{36}$ (b) $\sqrt{(100 - 19)}$ (c) $\sqrt{23^2}$

(d) 7^2 (e) $3^2 + 4^2$ (f) $(12 - 7)^2$

4. Without using a calculator evaluate the following.

(a) 30×100 (b) 800×20 (c) 400×500

(d) $6000 \div 10$ (e) $8000 \div 200$ (f) $18\ 000 \div 900$

5. Find the approximate answer to the following problem by rounding the numbers first.

A farmer stacked 89 bales of hay onto a truck. Each bale weighed 32 kg.

What was the total weight of the hay on the truck?

6. Use a calculator to solve the following problems.

(a) $\frac{89\ 112 \div 79}{5076 \div 9}$

(b) $\frac{230 \times (203 - \sqrt{7921})}{115 \times (301 - \sqrt{5329})}$

(c) $\frac{\frac{63733}{\sqrt{529}} - \frac{19110}{\sqrt{1225}}}{\frac{45333}{\sqrt{729}} - \frac{14808}{\sqrt{144}}}$

(d) $\frac{8^4 - 4052}{3^6 - 727} \div \frac{612 - 564}{\sqrt{(1099 - 523)}}$

(e) $\frac{5^5 - 2621}{2410 - 7^4} \times \frac{1307 - 1234}{\sqrt{(5329 \times 64)}}$