1. Work out the value of... (you only need to find the positive square root where necessary)

a. 5^2 b. 11^3 c. $\sqrt{100}$ d. 3^3 e. 9^2 f. $\sqrt[3]{512}$ g. $\sqrt[3]{343}$ h. 8^2 i. $\sqrt[3]{1331}$ j. 12^2

2. Work out the value of... (you only need to find the positive square root where necessary)

a. $2^2 + 3^2$ b. $\sqrt{36} + 2^3$ c. $12^2 - \sqrt[3]{512}$ d. $5^2 \times 10^2$ e. $\sqrt{81} \div \sqrt[3]{27}$

f. $4^3 - 7^2$ g. $\sqrt{121} \times 2^2$ h. $\sqrt[3]{1728} \div \sqrt[3]{64}$ i. $8^2 - \sqrt[3]{343}$ j. $3^3 + 6^2$

3. Find the value of the missing box...

a. $\square^2 + 4^2 = 52$ b. $\sqrt[3]{\square} - 2^3 = 3$ c. $\sqrt{100} \div \square^2 = 4$ d. $3^3 + \square^3 = 539$

e. $\sqrt{\square} \times \sqrt[3]{125} = 45$ f. $\square^2 + \sqrt{25} = 149$ g. $7^3 - \square^2 = 294$ h. $\sqrt[3]{216} \times \square^3 = 384$

4. Use your knowledge of square, cubes and roots to work out the value of... (you only need to find the positive square root where necessary)

a. 60^2 b. $\sqrt[3]{8000}$ c. $(-7)^2$ d. $\sqrt[3]{1331000}$ e. $\sqrt{0 \cdot 49}$ f. $0{\cdot}5^2$

g. $\sqrt{400}$ h. $\sqrt[3]{-343}$ i. $0{\cdot}8^2$ j. $\sqrt{2500}$ k. $(-5)^3$ l. $\sqrt{640000}$

5. Find the numbers *a, b, c, d* and *e* which are consecutive integers such that

$$a^2 + b^2 + c^2 = d^2 + e^2$$

6. Find a and b so that

$$a^3 - b^3 = 316$$

and

$$a - b = 4$$

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