

Talk maths

Try to out-smart an adult. Ask them to solve a calculation mentally, then give them a challenge such as to multiply a square or cube number by a power of 10. For example:

What is seven squared times a thousand?

What is three cubed times one hundred thousand?

If you are feeling brave, work out some answers in advance and then try out-smarting an adult with a mental division, for example:

What is forty-nine thousand divided by seven?

What is two thousand seven hundred divided by three?

DID YOU KNOW?

$$10^3 = 1000$$

$$100^3 = 1,000,000$$



Check

1. Solve these multiplications mentally.

a. $24 \times 200 =$ _____

b. $62 \times 1000 =$ _____

c. $40 \times 40 =$ _____

d. $25 \times 2000 =$ _____

e. $43 \times 10,000 =$ _____

f. $100 \times 10,000 =$ _____

2. Now solve these divisions using mental methods.

a. $6000 \div 3 =$ _____

b. $125 \div 5 =$ _____

c. $125,000 \div 5 =$ _____

d. $360,000 \div 4 =$ _____

e. $640,008 \div 8 =$ _____

f. $125,000 \div 5 =$ _____

3. Use your knowledge of inverses to solve these.

a. If $27,072 \div 576 = 47$, what does $576 \times 47 =$ _____

b. If $4320 \times 723 = 3,123,360$, what does $3,123,360 \div 4320 =$ _____

Problems

Brain-teaser A football stadium holds 8000 people. How much money would be collected for a sell-out match if each ticket was £20?

Brain-buster For a different football match, tickets are sold for £30, but only £90,000 is collected.

How many tickets were sold? _____

