

Maths (shape/space/measures)

essential maths
Ages 8-14

Mental strategies

To make mental maths easier, use your known number facts first. Here are some ideas to help you ...

Counting on $3 \times 5 =$ $5 \times 3 =$ (change the order) $6 \times 5 =$ $12 \times 5 =$ (change the order)	Near doubles $5 \times 6 =$ $(5 \times 5) + 1 =$ $10 \times 1 = 11$ OR $5 \times 6 =$ $(6 \times 6) - 1 =$ $12 - 1 = 11$
Doubling $3 \times 5 = 15$ $6 \times 5 = 30$ $12 \times 5 = 60$ $25 \times 25 = 50$ $32 \times 32 = 64$ $79 \times 79 = 140$	Partitioning $5 \times 6 =$ $(5 \times 3) \times 2 =$ $10 \times 3 = 30$

Bridging a ten

Example 1: $8 \times 6 =$
 $(8 \times 5) + 2 =$
 $10 \times 5 = 50$
 $10 \times 2 = 20$
 $50 + 20 = 70$

Example 2: $7 \times 6 =$
 $(7 \times 5) + 2 =$
 $10 \times 5 = 50$
 $10 \times 2 = 20$
 $50 + 20 = 70$

Problem-solving strategies

Ask clarifying questions What is the question asking? Do I know anything about this topic? What does ... really mean? What else should I know to help me answer the question?	Make assumptions Using my knowledge of ... I can assume ... I think because I know ... If I know ... then I can ...	Estimate Can I see the numbers or make a possible guess? What do you think ... could I use an estimate to calculate the problem?	Survey Can I find out information by asking a sample of people? Do I need to investigate similar data and compare it to my information?	Locate information Where could I find information to help me solve the problem? Library Things I already know Ask an expert Parents Adults	Present findings What is the best way to show what I have found? Diagram Tables Graphs Calculations Explanations
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Extensive information for ebook lovers. It typically is not going to expense too much. I discovered this book from my i and dad recommended this pdf to learn.

(Prof. Gerardo Grimes III)

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