

A Checking

- Use divisibility rules to decide if 10, 5, or 2 is a factor of each number. If 10, 5, or 2 is not a factor, determine the remainder.
a) 375 b) 1987 c) 12 456 d) 1 000 000
- Write all the possibilities for the missing digit.
a) 136 is divisible by 10, 5, and 2.
b) 456 is divisible by 2, but not by 10 or 5.
c) 786 has a remainder of 2 when divided by 5.
d) 943 is divisible by 5, but not by 10 or 2.

B Practising

- Why do you think a divisibility rule for 1 is not needed?
- Write a four-digit number that is divisible by 5, but not by 10. Explain how you know.
- A truck is loaded with 1645 kg of potatoes in bags that have the same mass. Are the bags 1 kg, 2 kg, 5 kg, or 10 kg bags? Explain.
- How many ways can you pay each amount using only one type of Euro coin shown? Explain how you know.
a) 456 cents c) 2445 cents
b) 1430 cents d) 6843 cents
- a) Is your year of birth divisible by 10, 5, or 2? Explain.
b) How old will you be in the next year that is divisible by 10, 5, and 2?
- a) Which numbers between 1000 and 1100 are divisible by 20?
b) Use your answer in part (a) to create a divisibility rule for 20. Use a four-digit number as an example to help you explain your rule.
- Try the number trick at the left. Then explain why it works.
- What are the greatest and least numbers between 900 and 1000 that are divisible by 10, 5, and 2? Explain your thinking.
- How are the divisibility rules for 10, 5, and 2 similar? How are they different?



Number Trick

- Multiply your age by 2.
- Multiply this product by 5.
- Remove the last digit.
- The answer is your age.