

Can-do skills in Mathematics

Tests (activities) used to collect evidence about the status of pupils' skills under a formative assessment framework, are normally planned, designed and constructed by classroom teachers in order to

Provide opportunities whereby pupils can practice skills related to the key Mathematics content as defined by appropriate class standards and acquire the key words and terms that will be tested in the final examinations.

These activities

- enable each pupil to know and use the key words of the mathematical literacies appropriate for his or her level;
- provide regular and systematic practice of key mathematical skills;
- identify aspects of a mathematical topic that pupils tend to find difficult;
- contain test tasks that require varying levels of skills
- describe what each individual pupil needs in order to achieve specified goals;
- show what the teacher should do next to enhance the progress of the pupil;
- show what the pupil should do next to enhance his or her progress, confidence and competence.

Topics

Number sequences

Addition and subtraction of whole number

Short and long multiplication of whole numbers

Solving problems involving addition, subtraction and multiplication of whole numbers

Times tables: 1 x 1 to 9 x 9

Divisibility

Twelve key words are used in this exercise.

Do you know the meaning of each word?

Show, by putting a ✓, whether you know the meaning or not

Key word	Do you know the meaning?		
	Yes	No	Not certain
addition			
difference			
digit			
divisible			
line			
multiplication			
problem			
sequence			
solve			
subtraction			
sum			
whole number			

Set A

1. In each line, two numbers are missing. What are the missing numbers?

a.

29	39	49	59		
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b.

96	48		12	6	
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c.

404		396		388	384
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2. A whole number is divisible by

2 if the last digit is divisible by 2;

3 if the sum of all its digits is divisible by 3;

4 if the last two digits are divisible by 4;

5 if the last digit is 0 or 5.

Find the numbers by which each whole number below is divisible. Your answer may be more than one number.

363 Answer: _____

208 Answer: _____

555 Answer: _____

7524 Answer: _____

3. Complete these additions

$$\begin{array}{r} \text{a.} \quad 426 \\ + 342 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad 525 \\ + 246 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{c.} \quad 3952 \\ + 2069 \\ \hline \\ \hline \end{array}$$

4. Find the sum of

a. 26 094, 136, 5613

b. 34, 2006, 8

c. 199, 2001, 98

5. Complete these subtractions:

$$\begin{array}{r} \text{a.} \quad 526 \\ - 334 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{b.} \quad 545 \\ - 226 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{c.} \quad 624 \\ - 248 \\ \hline \\ \hline \end{array}$$

6. Find the difference between

a. 8372 and 617 Answer: _____

b. 3216 and 3367 Answer: _____

c. 4000 and 3999 Answer: _____

7. Complete

(a) $36 - 49 + 24 =$ Answer: _____

(b) $45 + 37 - 68 =$ Answer: _____

(c) $83 - 26 - 38 =$ Answer: _____

8. Find the answers:

a.
$$\begin{array}{r} 34 \\ \times 2 \\ \hline \\ \hline \end{array}$$

b.
$$\begin{array}{r} 45 \\ \times 3 \\ \hline \\ \hline \end{array}$$

c.
$$\begin{array}{r} 67 \\ \times 5 \\ \hline \\ \hline \end{array}$$

d.
$$\begin{array}{r} 148 \\ \times 6 \\ \hline \\ \hline \end{array}$$

e.
$$\begin{array}{r} 236 \\ \times 7 \\ \hline \\ \hline \end{array}$$

f.
$$\begin{array}{r} 408 \\ \times 9 \\ \hline \\ \hline \end{array}$$

9. Complete these multiplications

a.
$$\begin{array}{r} 71 \\ \times 21 \\ \hline \\ \hline \end{array}$$

b.
$$\begin{array}{r} 651 \\ \times 27 \\ \hline \\ \hline \end{array}$$

c.
$$\begin{array}{r} 247 \\ \times 32 \\ \hline \\ \hline \end{array}$$

10. Solve these problems

a. A box contains 24 pencils.
How many pencils will be in 6 boxes?

b. One mango costs \$1.25
What will be the cost of 12 mangoes?

c. Each vase holds six roses.
How many roses will be in 20 vases?

d. P, Q and R are villages.

There are 3 different roads from P to Q, and 4 different roads from Q to R.

i. Draw a diagram showing the villages and all the roads

ii In how many different ways can a car travel from P to R?

11. Find two numbers that have a sum of 10 and a difference of 2.

Answer: _____

12. Share 100 shells between John and Joan. Give John 10 more than Joan. How many shells will John get?

Answer: _____