Year 5 Maths – Measurement - Length – Home / School Learning, Week C

Converting Units of Length

Learning Intention:
Students will:

- ***Be able to convert units of length between millimetres (mm), centimetres (cm), metres (m) and kilometres (km)***
- ***Be able to measure the perimeter of a shape just from given measurements***

When measuring and converting length it is important to remember:

1cm = 10 mm

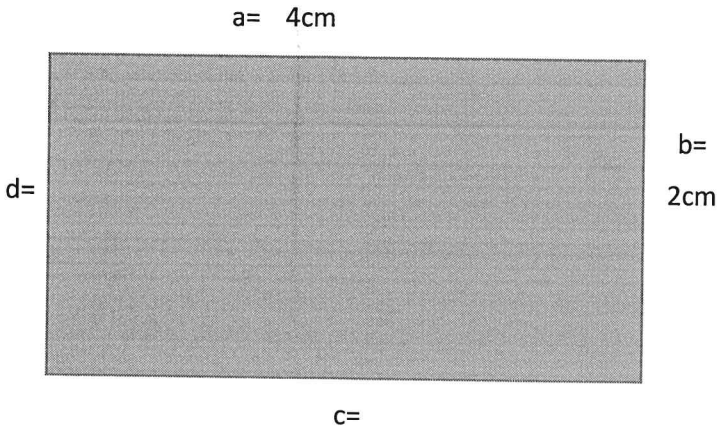
1m = 100cm

1km = 1000m

Tasks – Complete 'Converting decimals lengths to their separated Form

When measuring perimeter remember it is the "distance around the outside of a 2D shape'.

So if I'm measuring the perimeter of a rectangle with sides 2cm and 4cm I would add the following:



Perimeter = (a) 4cm + (b) 2cm + (c) 4cm + (d) 2cm = 12cms

Week C – Fractions and Decimals

Learning Intention:
Students will:

- ***add and subtract fractions with like denominators***
- ***work out the fraction of a quantity***

When adding or subtracting fractions with like denominators, all we need to do is add or subtract the numerators (top number). The denominator (bottom number) will always stay the same.

So: $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

And $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$

And when working out the fraction of a quantity:

- first divide by the denominator
- then times by the numerator

So: $\frac{3}{8}$ of 32 = 32 ÷ 8 = 4, then 4 x 3 = 12

$\frac{3}{8}$ of 32 = 12

Length – Term 3 Name: _____

1. Convert the following decimal lengths to their separated form

a. 3.2 m = _____m and _____cm **b.** 4.75m = ___m and _____cm

c. 10.4 m = _____m and _____cm **d.** 8.35m = ___m and _____cm

e. 13.02 m = _____m and _____cm **f.** 4.05m = ___m and _____cm

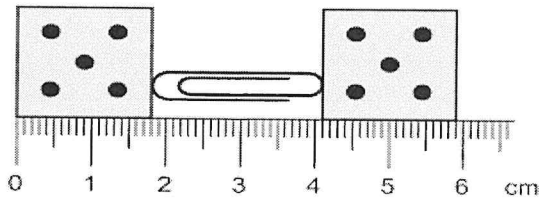
2. Convert the following decimal lengths to their separated form

a. 2km and 400m = _____km **b.** 3cm and 4mm = _____cm

c. 11km and 280m = _____km **d.** 7cm and 5mm = _____cm

e. 112km and 5m = _____km **f.** 8cm and 1mm = _____cm

This picture shows a paperclip between two dice on a ruler.



What is the length of the paperclip?

18 mm ○ 20 mm ○ 23 mm ○ 41 mm ○

21 This is a picture of a shoe.

Shade one bubble.

Which of these is closest to the length of a **real** shoe?

5 cm ○ 25 cm ○ 75 cm ○ 100 cm ○

Name Date

PERIMETER OF A RECTANGLE CHALLENGES 1

Work out the perimeter of the following rectangles.

RECTANGLE	PERIMETER
1) A rectangle measuring 3cm by 4cm.	_____ cm
2) A square with side 5cm.	_____
3) A rectangle with sides 5mm and 8mm.	_____
4) A square with sides of 20 m	_____
5) A rectangle with sides 5cm and 7cm.	_____
6) A rectangle with sides 13 cm and 10 cm.	_____
7) A rectangle with sides 4 cm and 11 cm.	_____
8) A square with sides of 12 cm.	_____
9) A rectangle with sides 20 mm and 15 mm.	_____
10) A rectangle with sides 3 ½ cm and 1 ½ cm	_____
11) A square with sides 1 ½ m.	_____
12) A rectangle with sides 45 cm and 55 cm.	_____
13) A rectangle with sides 1m 20cm and 2m 30cm.	_____
14) A square with sides 6 ½ cm.	_____

CHALLENGE

I am a square. My perimeter is 32cm.

How long is each of my sides? _____

Adding fractions (like denominators)

Grade 5 Fractions Worksheet

Find the sum.

1. $\frac{3}{4} + \frac{3}{4} =$ _____
2. $\frac{5}{7} + \frac{6}{7} =$ _____
3. $\frac{16}{25} + \frac{12}{25} =$ _____
4. $\frac{23}{100} + \frac{54}{100} =$ _____
5. $\frac{6}{9} + \frac{1}{9} =$ _____
6. $\frac{8}{10} + \frac{4}{10} =$ _____
7. $\frac{4}{6} + \frac{4}{6} =$ _____
8. $\frac{18}{50} + \frac{42}{50} =$ _____
9. $\frac{13}{20} + \frac{11}{20} =$ _____
10. $\frac{7}{11} + \frac{7}{11} =$ _____
11. $\frac{15}{25} + \frac{7}{25} =$ _____
12. $\frac{4}{7} + \frac{3}{7} =$ _____
13. $\frac{1}{3} + \frac{1}{3} =$ _____
14. $\frac{4}{8} + \frac{3}{8} =$ _____
15. $\frac{2}{5} + \frac{2}{5} =$ _____
16. $\frac{8}{16} + \frac{10}{16} =$ _____
17. $\frac{3}{12} + \frac{6}{12} =$ _____
18. $\frac{1}{2} + \frac{1}{2} =$ _____
19. $\frac{3}{13} + \frac{7}{13} =$ _____
20. $\frac{8}{15} + \frac{11}{15} =$ _____
21. $\frac{3}{14} + \frac{4}{14} =$ _____

Subtracting fractions (like denominators)

Grade 5 Fractions Worksheet

Find the difference.

1. $\frac{14}{15} - \frac{13}{15} =$ _____
2. $\frac{6}{9} - \frac{5}{9} =$ _____
3. $\frac{95}{100} - \frac{36}{100} =$ _____
4. $\frac{7}{11} - \frac{4}{11} =$ _____
5. $\frac{30}{50} - \frac{22}{50} =$ _____
6. $\frac{6}{12} - \frac{4}{12} =$ _____
7. $\frac{14}{30} - \frac{13}{30} =$ _____
8. $\frac{19}{25} - \frac{11}{25} =$ _____
9. $\frac{8}{10} - \frac{7}{10} =$ _____
10. $\frac{9}{20} - \frac{8}{20} =$ _____
11. $\frac{4}{5} - \frac{2}{5} =$ _____
12. $\frac{18}{20} - \frac{17}{20} =$ _____
13. $\frac{12}{25} - \frac{8}{25} =$ _____
14. $\frac{86}{100} - \frac{74}{100} =$ _____
15. $\frac{48}{50} - \frac{44}{50} =$ _____
16. $\frac{17}{30} - \frac{15}{30} =$ _____
17. $\frac{17}{18} - \frac{1}{18} =$ _____
18. $\frac{14}{15} - \frac{9}{15} =$ _____

Name Date

FRACTIONS OF NUMBERS SHEET 4

Use division and multiplication to help you find these fractions.

1) $^1/_5$ of 30 = ___ 2) $^2/_5$ of 30 = ___ 3) $^4/_5$ of 30 = ___

4) $^1/_6$ of 24 = ___ 5) $^5/_6$ of 24 = ___ 6) $^1/_{10}$ of 40 = ___

7) $^7/_{10}$ of 40 = ___ 8) $^1/_9$ of 18 = ___ 9) $^5/_9$ of 18 = ___

10) $^1/_8$ of 80 = ___ 11) $^3/_8$ of 80 = ___ 12) $^1/_{15}$ of 30 = ___

13) $^6/_{15}$ of 30 = ___ 14) $^1/_3$ of 45 = ___ 15) $^2/_3$ of 45 = ___

16) $^1/_7$ of 42 = ___ 17) $^4/_7$ of 42 = ___ 18) $^1/_{12}$ of 36 = ___

19) $^7/_{12}$ of 36 = ___ 20) $^1/_{20}$ of 100 = ___ 21) $^9/_{20}$ of 100 = ___

22) $^1/_5$ of 45 = ___ 23) $^3/_5$ of 45 = ___ 24) $^4/_5$ of 45 = ___

CALCULATOR CHALLENGE

Use a calculator to work out these fractions

1) $^1/_3$ of 186 = ____ 2) $^2/_3$ of 186 = ____ 3) ¼ of 368 = ____

4) ¾ of 168 = ____ 5) $^1/_9$ of 378 = ____ 6) $^5/_9$ of 378 = ____

7) $^1/_7$ of 861 = ____ 8) $^4/_7$ of 861 = ____ 9) $^1/_5$ of 965 = ____

10) $^3/_5$ of 965 = ____ 11) $^1/_{12}$ of 468 = ____ 12) $^7/_{12}$ of 468 = ____

13) Captain Salamander is out fishing. He manages to catch a total of 335 fish in a single day. But $^2/_5$ of the fish manage to escape while he is not looking. How many fish escape? _____ How many are left? ____