The following have videos you can view on mathswatchvle if you need support (N27b).

# Monday May 4<sup>th</sup>

## Rounding- Decimal Numbers

**N27b** Rounding Decimal Places

Round the following numbers to 1 decimal place.

a)  4.21                     f)  578.48

b)  53.43                    g)  79.035
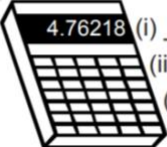
c)  31.59                    h)  3443.77052
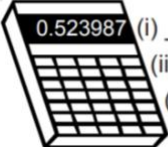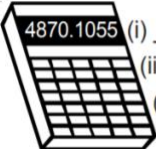
d)  8.827                    i)  26.9999
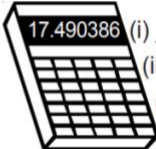
**N27b** Rounding Decimal Places
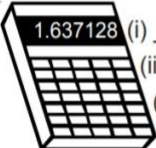
Round each of the numbers on the calculators to
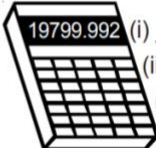(i)  1 d.p.
(ii)  2 d.p.
(iii)  the nearest whole number.

1)  4.76218  (i) ___  (ii) ___  (iii) ___

2)  0.523987  (i) ___  (ii) ___  (iii) ___

3)  4870.1055  (i) ___  (ii) ___  (iii) ___

4)  17.490386  (i) ___  (ii) ___  (iii) ___

5)  1.637128  (i) ___  (ii) ___  (iii) ___

6)  19799.992  (i) ___  (ii) ___  (iii) ___

**5b. I'm thinking of a number with 2 decimal places.**

- The hundredth is an even number.
- The tenth is an odd number.
- When rounded to the nearest tenth, my number is 7.6.
- When rounded to the nearest whole number, my number is 8.

**What could my number be?**

**9b Sunil has been rounding 9.095. He says,**

> 9.095 rounded to the nearest tenth is 9.1.
>
> 9.095 rounded to the nearest whole number is 10.

**Is he correct? Prove it.**

# Tuesday May 5th

## Subtracting- Decimal Numbers

The following have videos you can view on mathswatchvle if you need support (N14b).

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**N14b** Subtraction - Decimals

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1) $68.1 - 27.3 \ = \ \underline{\hphantom{xxxx}}$

2) $24.75 - 0.098 \ = \ \underline{\hphantom{xxxxx}}$

3) $94.78 - 36 \ = \ \underline{\hphantom{xxxx}}$

4) $3564 - 1971.6 \ = \ \underline{\hphantom{xxxxx}}$

5) $800 - 237.62 \ = \ \underline{\hphantom{xxxx}}$

**Fill in the missing digits.**

1.
```
    □ . □ 4 5
  - 1 . 4 5 3
  -----------
    4 . 3 □ □
```

3.
```
    4 . 6 □
  - □ . □ 3
  ---------
    2 . 8 2
```

5.
```
    6 . □ □ 8
  - □ . 1 9 □
  -----------
    1 . 0 4 9
```

**3b.** Using the digit cards below for subtraction, Jessica thinks the largest number she can make will be > 0.5.

| 6 | 2 | 8 | 4 |
|---|---|---|---|

```
    0 . □
  - 0 . □
  -------
    0 . □
```

Is she correct? Explain your answer.

**8b.** Joe needs to knit at least 0.673m of his pattern each day to complete the garment by the weekend. This is his knitting record.

| Mon | 0.673 m |
|-------|---------|
| Tues | 0.567 m |
| Wed | 0.684 m |
| Thurs | 0.43 m |
| Fri | 0.098 m |

**How far off his target is he each day?**

# Multiplication- Decimal Numbers

The following have videos you can view on <u>mathswatchvle</u> if you need support (N28b).

N28b    Long Multiplication Decimals

1)  1.5 × 22   = _____

2)  7.6 × 2.1  = _____

3)  4.5 × 9.99  = _____

4)  19.7 × 6.3 = _____

5)  0.35 × 0.12= _____

N28b    Long Multiplication Decimals

1)  Work out what the ✶ must be.

a)
```
    1 ✶ 5
      ✶ 2
  ─────────  ×
    ✶ 7 0
  1 3 5 0
  ─────────
  ✶ ✶ ✶ 0
```

b)  ×

| × | ✶✶ | 3 |
|---|------|------|
| 80 | 4800 | ✶✶✶ |
| ✶ | 120 | 6 |

answer: ✶ ✶ ✶ ✶

c)
```
    4 ✶
      ✶ 7
  ─────────  ×
  3 ✶ 3
  ✶ 9 0
  ─────────
  ✶ ✶ 3
```

d)  ×

| × | ✶ 0 | ✶ |
|------|--------|------|
| ✶✶✶ | ✶✶✶✶ | ✶✶✶ |
| 40 | ✶✶00 | ✶✶✶ |
| ✶ | 450 | 25 |

answer:   13775

2)  A school organises a trip to a museum.

They set off in 13 minibuses, each minibus containing 24 pupils who will each pay to go into the museum.

Entrance to the museum costs £1.20 per person.

a)  How many people made the trip?

b)  What was the total cost?

# Thursday May 8<sup>th</sup>

# Division – Decimal Numbers

**SECTION A**

**Dividing Decimals** ☆☆

**1.** Complete these divisions

a) $11.9 \div 7 =$

b) $26.4 \div 8 =$

c) $28.5 \div 5 =$

d) $19.8 \div 9 =$

e) $31.8 \div 6 =$

f) $78.4 \div 4 =$

**SECTION B**

**Dividing Decimals** ☆☆☆

**1.** Complete these divisions

a) $8.4 \div 12 =$

b) $0.143 \div 11 =$

c) $34.5 \div 15 =$

d) $0.322 \div 14 =$

e) $2.266 \div 22 =$

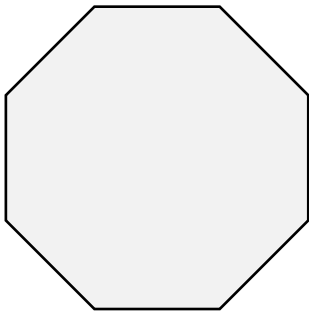f) $7.68 \div 12 =$

g) $0.56 \div 16 =$<sup>th</sup>

h) $15.75 \div 25 =$

Solve these word problems and show your method.

**a).**  James has 3.65m of rope into 5 pieces of equal length.
How long is equal piece of rope?

**b)** The perimeter of a regular octagon is 40.8cm
Calculate the length of each side.

2. Winston knows that 34 × 46 = 1564.

He uses this fact to work out the value of 1564 ÷ 4.6.

Find Winston's solution.

Explain your reasoning.