






Grade 4+: Number Sense A

Collaborative Task

The Gewey Gum Factory supplies chewing gum to the best stores in Canada. The chewing gum is sold as single squares (singles), sets of 10 of singles (packs), sets of 10 packs (bundles), sets of 10 bundles (cartons) and sets of 10 cartons (boxes).

				
Box of 10 000	Carton of 1 000	Bundle of 100	Pack of 10	Single

The Big Box Store has ordered 79 306 pieces of Gewey Gum.

The factory does not always have all of the packaging options available.

Represent three different ways the Gewey Gum can be packaged for shipping to The Big Box Store.

Possible representations:


7 boxes, 9 cartons, 3 bundles, 6 singles

7 boxes, 93 bundles, 6 singles

6 boxes, 19 cartons, 3 bundles, 6 singles

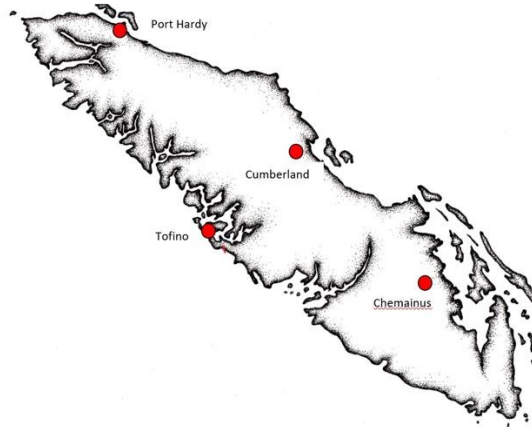
7 boxes, 9 cartons, 306 singles

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Assessment Question	Answer Key
<p>1. Write the number your teacher says. Here is an example: If your teacher says seven hundred eighty-five, you write 785.</p> <p>a. _____</p> <p>b. _____</p> <p>c. _____</p> <p>d. _____</p>	<p>Teacher says the number and students write the numeral:</p> <p>98</p> <p>327</p> <p>1 006</p> <p>12 020</p>
<p>2. What is the value of the underlined digit? 3 <u>3</u> 3 3</p>	<p>300</p> <p>3 hundred</p>
<p>3. Create three different numbers using all of the following digits.</p> <div style="text-align: center;">  </div> <p>_____</p> <p>Next, put your three numbers in order from greatest to least.</p> <p>_____</p>	<p>7 642</p> <p>6 472</p> <p>4 627</p> <p>Adapted from question 4 from old DMA</p>
<p>4. What is the numeral for nine thousand six hundred two?</p>	<p>9602</p> <p>Question 5 from old DMA</p>
<p>5. The following chart lists the population of four locations on Vancouver Island.</p> <p>Determine which three populations combined are closest to 10 000.</p>	<p>Port Hardy 4 000</p> <p>Cumberland 4 000</p> <p>Tofino 2 000</p> <p>Total = 9 817</p>

Show your thinking.

Location	Population
Port Hardy	4 132
Cumberland	3 753
Tofino	1 932
Chemainus	3 035



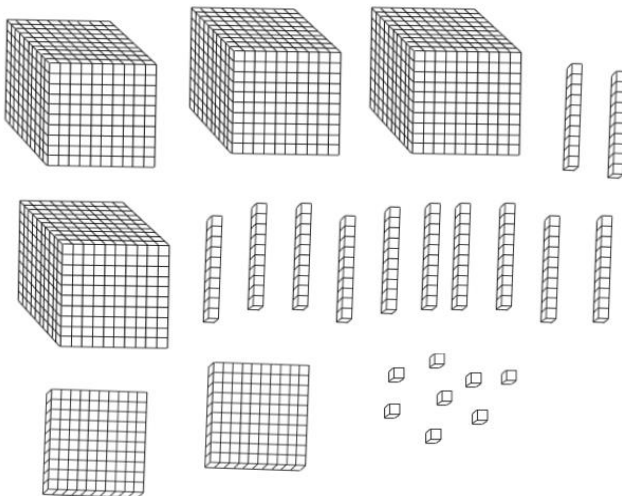
Rounding helped me realize I was less than 200 away with my estimate

Port Hardy 4 000
Tofino 2 000
Chemainus 3 000

Total = 9 099 was closest to 9000 and far from 10 000 on the numberline

Give an example and a non-example

6. Write the number that describes how many blocks are shown below.



4 328

7. Place the following numbers on the number line below:

5 000

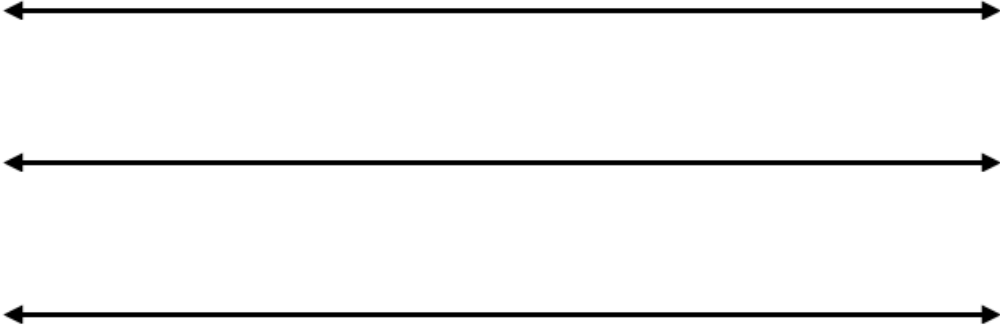

9 000

7 500

2500

2 000
5 000
7 500
9 000



<p>8. One way to break apart the number 6 789 is to write it as six thousands, seven hundreds and eighty-nine ones.</p> <p>Show two more ways to break apart 6 789.</p>	<p>Six thousands, seven hundreds, eight tens, nine ones</p> <p>$4779 + 2010$</p> <p>Standard partition: six thousand + seven hundred + eight tens + nine ones</p> <p>Non-standard partition: $1788 + 5001$</p> <p>Standard and non-standard representation indicates flexibility with number</p>
<p>9. Skip count to 36 in more than one way, using multiples. You can use the open number lines provided.</p>   <p>one example</p>	<p>3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36</p> <p>4, 8, 12, 16, 20, 24, 28, 32, 36</p> <p>6, 12, 18, 24, 30, 36</p> <p>9, 18, 27, 36</p> <p>12, 24, 36</p> <p>18, 36</p> <p>36!</p>

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Performance Task:

FISH STOCKING REPORT

Regions	VANCOUVER ISLAND
Towns	COURTENAY
Waterbodies	PUNTLEDGE R
Species	Steelhead
Strains	All
Report Type	Summary Report
Date	- to -

Release Year	Region	Nearest Town	Waterbody Name	Species	Quantity
2005	VANCOUVER ISLAND	COURTENAY	PUNTLEDGE R	Steelhead	103,262
2004	VANCOUVER ISLAND	COURTENAY	PUNTLEDGE R	Steelhead	102,508
2003	VANCOUVER ISLAND	COURTENAY	PUNTLEDGE R	Steelhead	131,852
2002	VANCOUVER ISLAND	COURTENAY	PUNTLEDGE R	Steelhead	76,497
2001	VANCOUVER ISLAND	COURTENAY	PUNTLEDGE R	Steelhead	111,011
2000	VANCOUVER ISLAND	COURTENAY	PUNTLEDGE R	Steelhead	3,443

Inquiry: *What math lives here? Show at least 3 things you notice and pose 2-3 wonders.*

Every year, our BC hatcheries raise and release over 8 million trout, char and kokanee-from juvenile fry to catchable size fish. Use the stocking report tool to find out which fish were released, where and when.

What do you notice about the fish stock data?

4 years the fish stocks are over 100 000

Year 2000 is very low, about 75 000 fish less than the closest year

Over the six years displayed on the table there were about 500 000 fish counted (exact amount ...)

I notice that two years closest in data reporting were 2004 , 2005 (the difference was just 754 steelhead)

I noticed that in 2001 nearly all the digits were 1.

What do you wonder about the fish stock data?

I wonder if the data would be more or less in 2019.

I wonder if data would be similar for steelhead in other parts of British Columbia.

I wonder why 2003 stocks are nearly double 2002.

Teachers, take stock, if notices and wonders are mathematically linked. This formative evidence will inform instruction for wide open questions.

Here is a link to find other data sets for your region:

<https://www.gofishbc.com/Stocked-Fish.aspx#fish-stocking>