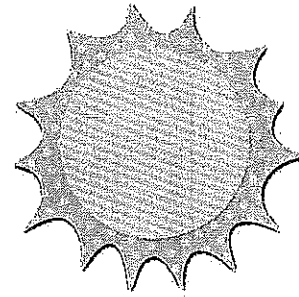


Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 1 Lesson 1



1. Fill in the blanks with numbers.

a) 2750 is 250 less than 3000.

b) The sum of 4800 and 320 is 5120.

$$4000 + (800+300) + 20 = 4000 + 1100 + 20$$

c) The difference between 1000 and 2388 is 1388.

2. I wish I had 1000...how many more do I need?

a) I have 270. 730

30 gets to 300, then 700 to 1000

b) I have 510. 490

90 gets to 600, then 400 to 1000

c) I have 160. 840

40 gets to 200, then 800 to 1000

3. Add or Subtract (VIDEO: ADDING WITH TRADING & SUBTRACTING WITH TRADING)

$$\begin{array}{r} \overset{1}{2}973 \\ + 3422 \\ \hline \end{array}$$

6395

$$\begin{array}{r} \overset{2}{3}423 \\ - 2920 \\ \hline \end{array}$$

503

4. Fill in the blank with cm, m, km, g, or kg.

a) The weight of a paperclip. g

b) The length of a soccer field. m

BLANK

Singapore Summer Shape Ups: Level 3 – Thinking Guide

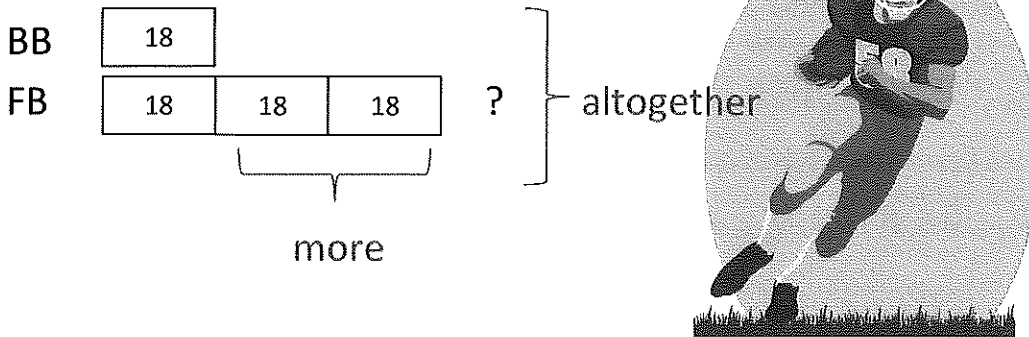
5. Write $<$, $>$, or $=$ in each blank.

a) $6500 \text{ } > \text{ } 6050$

b) $2 \times 30 \times 40 \text{ } = \text{ } 2 \times 1200$

$2 \times (30 \times 40) = 2 \times 1200$ which equals 2×1200

6. There are 18 baseball players on the school team. There are 3 times as many football players. (VIDEO: MODEL DRAWING 3 TIMES AS MANY)

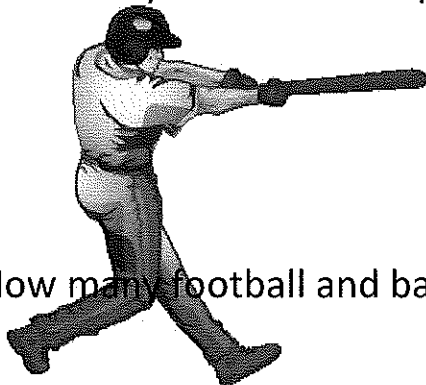


How many football players are there? 54

$3 \times 18 = 54$

How many more football players than baseball players?

36



$18 \times 2 = 36$

How many football and baseball players all together?

72

$18 \times 4 = 72$ or $18 + 54 = 72$

Singapore Summer Shape Ups: Level 3 – Thinking Guide

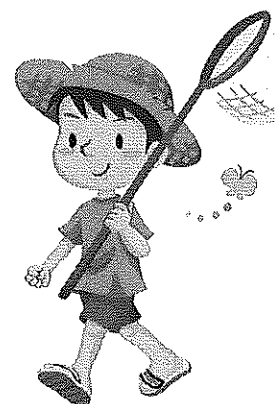
Week 1 Lesson 2

1. Fill in the blanks.

a) 11,322 is 1000 more than 10,322.

b) 3,040 has 4 tens.

c) $7922 = 7000 + \underline{900} + 20 + 2$



2. Fill in the blanks.

a) $50 \times 2 = 10 \times \underline{10}$ $50 \times 2 = 100$ and $10 \times 10 = 100$ or
 $50 \times 2 = (5 \times 10) \times 2 = 10 \times (5 \times 2) = 10 \times 10$

b) $0 \div 8 = \underline{0} \times 7$

c) $100 \times 37 = \underline{2} \times 50 \times 37$ $100 \times 37 = (2 \times 50) \times 37$

d) $2000 = 5 \times \underline{4} \times 100$ $2000 = 20 \times 100 = (5 \times 4) \times 100$

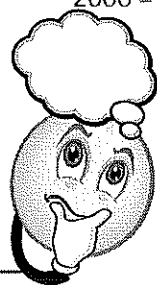
3. Use mental math to solve.

a) $1000 - 870 = \underline{130}$ 30 gets to 900 and 100 more to 1000
(VIDEO: MENTAL MATH 9 9 10)

b) $\$100 - 36.20 = \underline{\$63.80}$ 80¢ gets to \$37, \$3 gets to \$40, then \$60 to \$100
(VIDEO: MENTAL MATH 9 9 10)

c) $4654 + 999 = \underline{5653}$ $4654 + 1000 = 5654$, but we added 1 less than 999 so our answer is one less 5653
(VIDEO: MENTAL MATH – ADDITION/SUBTRACTION)

d) $\$8.20 + \$9.80 = \underline{\$18.00}$ 80¢+20¢ = \$1 and $\$8 + \$9 = \$17$, $\$1 + \$17 = \$18$
(VIDEO: ADDING WITH TRADING)



Singapore Summer Shape Ups: Level 3 – Thinking Guide

4. Fill in the blank. (VIDEO: UNIT COMPENSATION)

a) $6232 \text{ m} = \underline{6} \text{ km } \underline{232} \text{ m}$ $6000 \text{ m} = 6 \text{ km}$

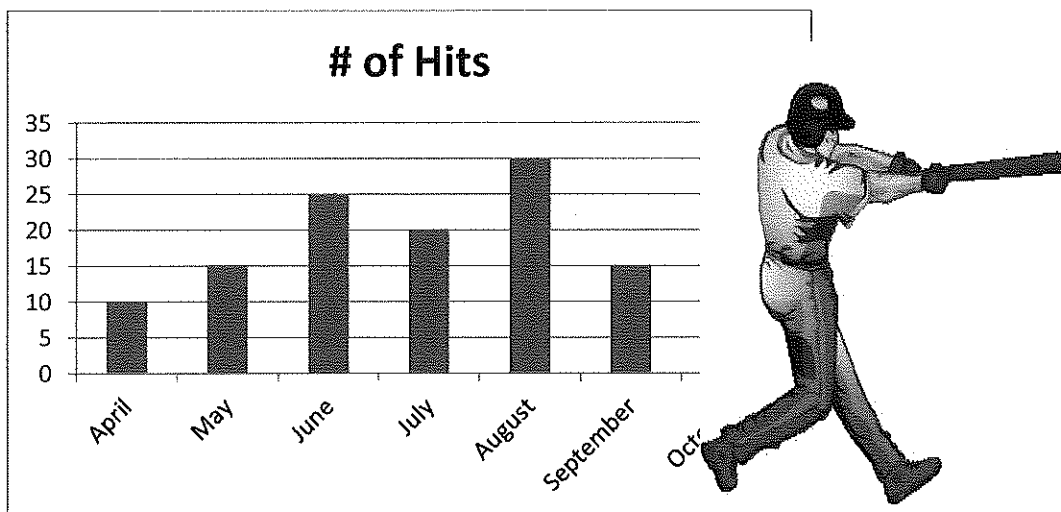
b) $4 \text{ L } 17 \text{ ml} = \underline{4017} \text{ ml}$ $4 \text{ L} = 4000 \text{ ml}, 4000 + 17 = 4017$

c) $2 \text{ years } 3 \text{ months} = \underline{27} \text{ months}$ $2 \text{ yrs} = 24 \text{ months} + 3 \text{ months}$

d) $4 \text{ yd} - 2 \text{ ft} = \underline{3} \text{ yd } \underline{1} \text{ ft} = \underline{10} \text{ ft}$

$4 \text{ yd} = 3 \text{ yd } 3 \text{ ft} - 2 \text{ ft} = 3 \text{ yd } 1 \text{ ft}$ or $4 \text{ yd} = 12 \text{ ft} - 2 \text{ ft} = 10 \text{ ft}$

5.



Use the graph above to answer the following questions.

a) Jeter got the most hits in August.

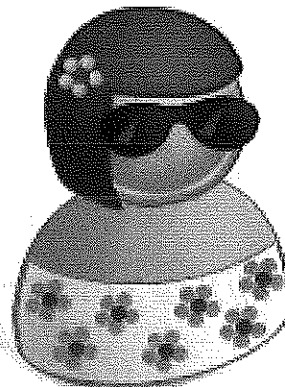
b) In May, he got 15 hits.

c) In July he got twice as many hits as in April.

d) He got 20 more hits in June than he did in October.

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 1 Lesson 3



1. Write $>$, $<$, or $=$ in each blank.

a) $0 \div 5$ ___ $=$ ___ 5×0

b) 700×7 ___ $=$ ___ $2255 + 2645$

4900

$4000 + 800 + 90 + 10 = 4000 + 800 + 100 = 4900$

c) $3 \times 10 \times 7$ ___ $<$ ___ 30×21

30×7 is less than 30×21

2. Add or Subtract mentally.

a) $6700 - 900 =$ ___ 5800 ___

67 hundreds $-$ 9 hundreds = 58 hundreds

(VIDEO: SUBTRACTING ACROSS ZERO)

b) $5530 + 3370 =$ ___ 8900 ___

$8000 + 800 + 100 = 8900$

(VIDEO: ADDING WITH TRADING)

c) $300 \times 5 =$ ___ 1500 ___

3 hundreds \times 5 = 15 hundreds

(VIDEO: MENTAL MATH – MULTIPLICATION BY DISTRIBUTING)

d) $15.50 + 11.75 =$ ___ 27.25 ___

$15 + 11 = 26$ and $0.50 + 0.75 = 1.25$

(VIDEO: ADDING WITH TRADING)

3. Fill in the blanks.



A rectangular prism has ___ 8 ___ vertices and ___ 4 ___ faces.

The faces on the prism are ___ rectangles ___. (circles, rectangles, or triangles)

Singapore Summer Shape Ups: Level 3 – Thinking Guide



a) Line A is shorter than Line B by 12 cm. What is the total length of Line A if they are 38 cm long altogether?

2 units = 38 – 12 (VIDEO: MODEL DRAWING – FIND 2 NUMBERS)
 2 units = 26
 1 unit = 13

Line A is 13 cm long.

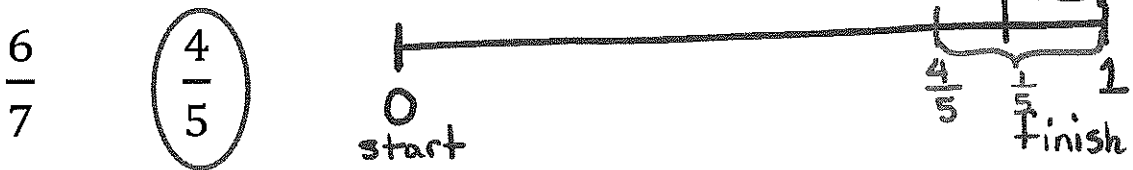
b) How long is Line B?

13 + 12 = 25

Line B is 25 cm long.

5. Circle the smaller fraction. (VIDEO: COMPARING FRACTIONS)

Both of these fractions are one unit from a whole. Think about a race...one person has $\frac{1}{7}$ of his race left. Another person has $\frac{1}{5}$ of his race left to run. Who is closest to the finish line? (Fifths are bigger units than sevenths so the person with $\frac{1}{7}$ left to run is closer to the finish line – so $\frac{6}{7}$ is greater than $\frac{4}{5}$)



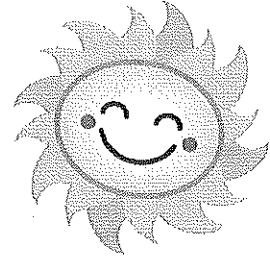
6. Find the missing number in each fraction. (VIDEO: SIMPLIFYING FRACTIONS)

15ths are 3 times bigger than 5ths so instead of needing 2-fifths, we need three times 2 or 6-fifteenths. In the numerator of the second fraction, we have 4 units of something. That's twice as many units as 2, so the size of the unit must be half as large. Tenths are half as large as fifths. (We could say 5ths are twice as large – 5×2 is 10.)

$$\frac{2}{5} = \frac{6}{15} = \frac{4}{10}$$

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 2 Lesson 1



1. Multiply or Divide.

a) $8 \times 6 = \underline{\quad 48 \quad}$

b) $63 \div 7 = \underline{\quad 9 \quad}$

c) $9 \times 4 = \underline{\quad 36 \quad}$

d) $54 \div 9 = \underline{\quad 6 \quad}$

e) $7 \times 7 = \underline{\quad 49 \quad}$

f) $72 \div 6 = \underline{\quad 12 \quad}$

2. I wish I had 1000...how many more do I need?

a) I have 380.
20 to get to 400, then 600 more.

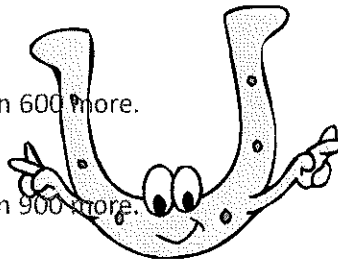
620

b) I have 90.
10 to get to 100, then 900 more.

910

c) I have 475.
25 to get to 500, then 500 more.

525



3. Add or Subtract (VIDEO: ADDING WITH TRADING & SUBTRACTING WITH TRADING)

a)
$$\begin{array}{r} ^1 \\ 3524 \\ + 6258 \\ \hline 9782 \end{array}$$

b)
$$\begin{array}{r} 6528 \\ - 3524 \\ \hline 3004 \end{array}$$

c)
$$\begin{array}{r} ^1 ^1 \\ \$28.75 \\ + 33.15 \\ \hline \$61.90 \end{array}$$


d)
$$\begin{array}{r} ^{12} \\ ^2 ^1 ^{11} \\ \$38.15 \\ - 28.75 \\ \hline \$ 4.40 \end{array}$$

Singapore Summer Shape Ups: Level 3 – Thinking Guide

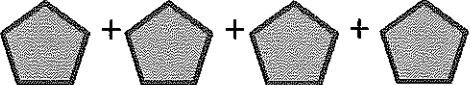
4. Fill in the blank with cm, m, km, ml or L.

a) The length of a ruler. cm

b) The capacity of a glass. ml

5.  = 32



Think: 4 units is the same as 32, so each triangle must be equal to 8.

 = 28



Think: 4 units is the same as 28 so each pentagon must be equal to 7.

a) What is  X  = 64

Since the triangle = 8, then $8 \times 8 = 64$

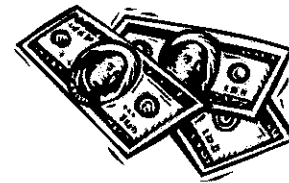
b) What is  X  = 49

Since the pentagon = 7, then $7 \times 7 = 49$

c) What is  X  = 56

So $7 \times 8 = 56$

6. Mr. Brock makes \$3200 a month. He pays \$1100 for rent, \$350 for food, and \$750 for other expenses. How much does he have left over to put into the bank?



Expenses: $1100 + (350 + 750) = 1100 + (1100) = 2200$

$3200 - 2200 = 1000$

 \$1000

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 2 Lesson 2



1. Fill in the blanks.

- a) In 10,288, the 0 is in the thousands place.
- b) 9,873 is 1000 less than 10,873 .
- c) When 398 is divided by 4, the quotient is 99 and the remainder is 2 .

We are sharing 389 with 4 groups. If we had 400, we could make 100 groups of 4, but we have 2 less in our whole. So we can only make 99 groups with 2 left over.

2. Multiply or Divide

- a) $8 \times 7 = \underline{\quad 56 \quad}$
- b) $48 \div 8 = \underline{\quad 6 \quad}$
- b) $7 \times 9 = \underline{\quad 63 \quad}$
- d) $56 \div 8 = \underline{\quad 7 \quad}$

3. Use mental math to solve.

- a) $1200 \times 5 = \underline{\quad 6000 \quad}$
12 hundreds \times 5 = 60 hundreds
- b) $4800 \div 8 = \underline{\quad 600 \quad}$
48 hundreds \div 8 = 6 hundreds
- c) $3 \times 5 \times 4 = \underline{\quad 60 \quad}$



$$3 \times (5 \times 4) = 3 \times 20 = 60$$

Singapore Summer Shape Ups: Level 3 – Thinking Guide

4. Fill in the blank.

a) 45 days = 6 weeks 3 days

$45 \div 6 = 7$ with remainder 3

b) 7 m – 2 m 65 cm = 4 m 35 cm

$7 \text{ m} = 6 \text{ m } 100 \text{ cm}$, so $6 \text{ m} - 2 \text{ m} = 4 \text{ m}$ and $100 \text{ cm} - 65 \text{ cm} = 35 \text{ cm}$

c) 4 L 250 ml + 820 ml = 5 L 70 ml

$250 \text{ ml} + 820 \text{ ml} = 1070 \text{ ml}$, $1000 \text{ ml} = 1 \text{ L}$

d) 7 yd 1 ft – 4 yd 2 ft = 2 yd 2 ft

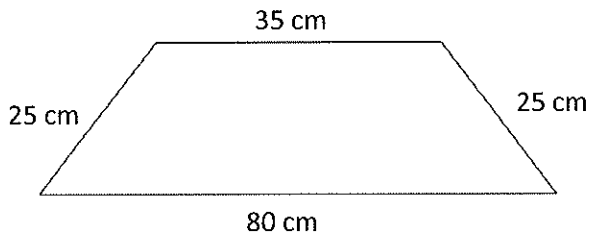
$7 \text{ yd} = 6 \text{ yd } 3 \text{ ft}$ which gives $6 \text{ yd } 4 \text{ ft} - 4 \text{ yd } 2 \text{ ft}$

5. Write the fractions in simplest form. (VIDEO: SIMPLIFYING FRACTIONS)

a) $\frac{5}{15} = \frac{1}{3}$

b) $\frac{7}{14} = \frac{1}{2}$

6.



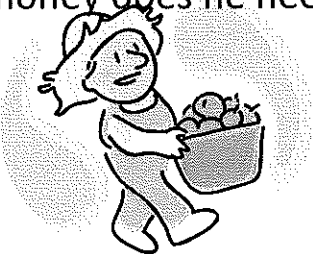
What is the perimeter of the figure?

$25 + 25 + 35 + 80 = 50 + 25 + 80$
 $= 85 + 80 = 165$, $100 \text{ cm} = 1 \text{ m}$

165 cm = 1 m 65 cm

Perimeter literally means “edge measure.” Help your child by asking them to “build a fence” around the figure. How much fencing would be needed?

7. Farmer Brown sold 4 pounds of broccoli for \$3.60 and 7 pounds of corn for \$4.90. If he needs to make \$10 today, how much more money does he need to make?

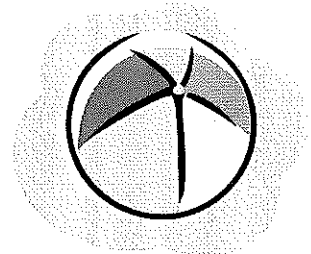


$3.60 + 4.90 = 7.00 + 1.50 = 8.50$
 He needs 10, so $10.00 - 8.50$
 0.50 gets to 9.00, then 1.00 more

\$1.50

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 2 Lesson 3



1. Multiply. (VIDEO: MULTIPLICATION)

a) $203 \times 4 = \underline{\quad 812 \quad}$

2 hundreds \times 4 + 3 ones \times 4
= 8 hundreds + 12 ones

c) $203 \times 6 = \underline{\quad 1218 \quad}$

e) $203 \times 8 = \underline{\quad 1624 \quad}$

b) $203 \times 5 = \underline{\quad 1015 \quad}$

2 hundreds \times 5 + 3 ones \times 5
= 10 hundreds + 15 ones

d) $203 \times 7 = \underline{\quad 1421 \quad}$

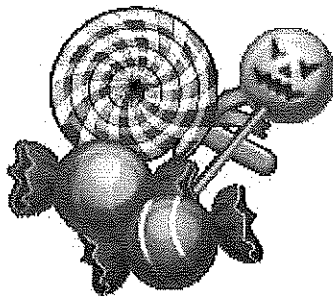
f) $203 \times 9 = \underline{\quad 1827 \quad}$

2. Divide. (VIDEO: DIVISION)

a)
$$\begin{array}{r} 21 \text{ R } 3 \\ 4 \overline{)87} \\ \underline{- 8 \text{ tens}} \\ 7 \text{ ones} \\ \underline{- 4 \text{ ones}} \\ 3 \text{ ones} \end{array}$$

b)
$$\begin{array}{r} 77 \text{ R } 2 \\ 3 \overline{)233} \\ \underline{- 21 \text{ tens}} \\ 2 \text{ tens} + 3 \text{ ones} = 23 \text{ ones} \\ \underline{- 21 \text{ ones}} \\ 2 \text{ ones} \end{array}$$

3. The teacher gave out candy to the students in her class. She gave each student 8 pieces of candy and she had a total of 362 pieces.



(VIDEO: DIVISION)

$$\begin{array}{r} 45 \\ 8 \overline{)362} \\ \underline{- 32 \text{ tens}} \\ 4 \text{ tens} + 2 \text{ ones} = 42 \text{ ones} \\ \underline{- 40 \text{ ones}} \\ 2 \text{ ones} \end{array}$$

How many students were in her class? 45

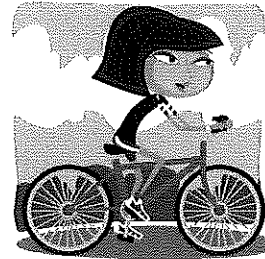
How much candy did she have leftover for herself? 2 pieces

Singapore Summer Shape Ups: Level 3 – Thinking Guide

4. If you ride your bike to your friend's house, it takes you 25 minutes. If you ride to school, it takes 15 minutes.
- a) How long does it take to get to your friend's house and back home?

$$25 + 25$$

It takes 50 minutes.



- b) If school starts at 7:50am and you want to be 5 minutes early, what time do you have to leave your house?

7:50, but you want to be there 5 minutes early, so $7:45 - 0:15 = 7:30\text{am}$

You must leave at 7:30am.

5. Circle the smaller fraction. (VIDEO: COMPARING FRACTIONS)

$$\frac{3}{5} \quad \left(\frac{3}{8} \right)$$

3-fifths is more than half, but 3-eighths is less than half, so $\frac{3}{8}$ is smaller than $\frac{3}{5}$

6. Find the missing number in each fraction. (VIDEO: SIMPLIFYING FRACTIONS)

$$\frac{6}{12} = \frac{1}{2} = \frac{2}{4}$$

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 3 Lesson 1



1. Fill in the blank.

a) 9 quarters = \$ 2.25 4 quarters = \$1
\$1 + \$1 + 25¢

b) 15 dimes = \$ 1.50 10 dimes = \$1 + 5 more dimes

c) 3 quarters + 3 dimes + 3 nickels = \$ 1.20
75¢ + 30¢ + 15¢ = 105¢ + 15¢ = 120¢ = \$1.20

2. I wish I had 1000...how many more do I need?

(VIDEO: MENTAL MATH 9 9 10)

a) I have 625.  375
75 gets to 700 and 300 more

b) I have 705. 295
95 gets to 800 and 200 more

c) I have 895. 105
5 gets to 900 and 100 more

3. Add or Subtract (VIDEO: ADDING WITH TRADING & SUBTRACTING WITH TRADING)

a)
$$\begin{array}{r} 1 \quad 1 \\ 7233 \\ + 1928 \\ \hline 9161 \end{array}$$

b)
$$\begin{array}{r} 6 \quad 12 \quad 2 \quad 13 \\ \cancel{7} \quad \cancel{2} \quad \cancel{3} \quad 3 \\ - 1927 \\ \hline 5306 \end{array}$$

c)
$$\begin{array}{r} 1 \\ \$30.15 \\ + 44.90 \\ \hline \$75.05 \end{array}$$

d)
$$\begin{array}{r} 3 \quad 14 \quad 8 \quad 10 \\ \$\cancel{4} \quad \cancel{4} \quad \cancel{0} \quad 0 \\ - 39.15 \\ \hline \$ 5.75 \end{array}$$

Singapore Summer Shape Ups: Level 3 – Thinking Guide

4. What is the best estimate for the problem?

$$397 \times 8$$

$$4000$$

$$3000$$

$$\underline{3200}$$

$$2400$$

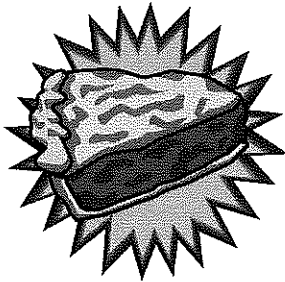
$$4000 \times 8 = 4 \text{ thousands} \times 8 = 32 \text{ thousands} \quad \text{OR} \quad 400 \times 10 = 4000$$

5. The chef was baking apple pies for Christmas. Each pie needs 7 apples. If the chef had 233 apples, but 16 of them had worms in them so had to be thrown away, how many pies was he able to bake?

(VIDEO: DIVISION)

$$233 - 16 = 217 \text{ good apples}$$

$$217 \div 7 = 31$$



$$\begin{array}{r} 31 \\ 7 \overline{) 217} \end{array}$$

$$2 \text{ hundreds} + 1 \text{ ten} = 21 \text{ tens}$$

$$\underline{- 21 \text{ tens}}$$

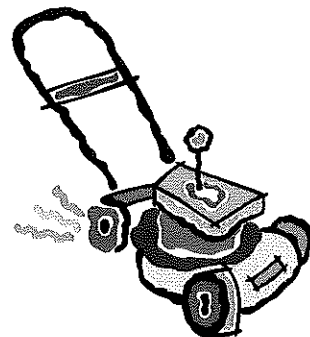
$$7 \text{ ones}$$

$$\underline{- 7 \text{ ones}}$$

$$0 \quad \underline{\quad} 31 \underline{\quad} \text{pies}$$

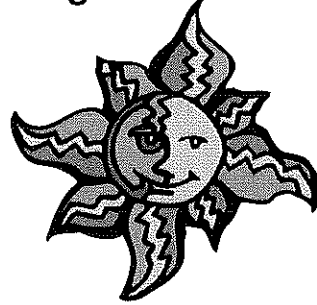
6. Mark took 1 hour 45 min to cut the grass. He finished just in time for lunch at 12:30 pm. What time did he start cutting the grass?

$$12:30 - 1 \text{ hour} = 11:30 - 30 \text{ minutes} = 11:00 - 15 \text{ minutes} = 10:45 \text{ am}$$



Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 3 Lesson 2



1. Fill in the blanks.

a) In 14,591, the 5 is in the hundreds place.

b) 9,973 is 100 less than 10,073 .

c) $8,303 = \underline{ 8 } \times 1000 + \underline{ 3 } \times 100 + \underline{ 3 } \times 1$

2. Multiply or Divide

a) $12 \times 7 = \underline{ 84 }$

b) $56 \div 7 = \underline{ 8 }$

If this one is hard, think: $(10 \times 7) + (2 \times 7) = 70 + 14$

b) $8 \times 9 = \underline{ 72 }$

d) $64 \div 8 = \underline{ 8 }$

3. Use mental math to solve.

a) $3500 \div 5 = \underline{ 700 }$

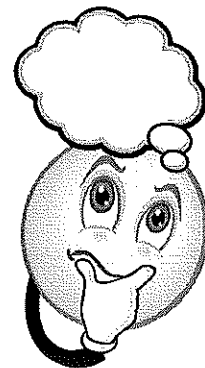
35 hundreds \div 5 = 7 hundreds

b) $2387 - 8 = \underline{ 2379 }$

$2387 - 7 = 2380$, but subtract 1 more = 2379

c) $5 \times 2 \times 60 = \underline{ 600 }$

$5 \times 2 = 10$ AND 10×6 tens = 60 tens



Singapore Summer Shape Ups: Level 3 – Thinking Guide

4. Fill in the blank.

a) $6 \text{ h } 15 \text{ min} + 4 \text{ h } 55 \text{ min} = \underline{11} \text{ h } \underline{10} \text{ min}$

$6 \text{ h} + 4 \text{ h} = 10 \text{ h}$, $15 \text{ min} + 55 \text{ min} = 70 \text{ min} = 1 \text{ h } 10 \text{ min}$, $10 \text{ h} + 1 \text{ h } 10 \text{ min}$

b) $6 \text{ h } 15 \text{ min} - 4 \text{ h } 20 \text{ min} = \underline{1} \text{ h } \underline{55} \text{ min}$

$6 \text{ h } 15 \text{ min} = 5 \text{ h } 75 \text{ min} - 4 \text{ h } 20 \text{ min}$

c) $7 \text{ yd } 1 \text{ ft} + 4 \text{ yd } 2 \text{ ft} = \underline{12} \text{ yd } \underline{0} \text{ ft}$

$7 \text{ yd} + 4 \text{ yd} = 11 \text{ yd}$, $1 \text{ ft} + 2 \text{ ft} = 3 \text{ ft} = 1 \text{ yd}$, $11 \text{ yd} + 1 \text{ yd} = 12 \text{ yd}$

d) $12 \text{ lb} - 10 \text{ lb } 7 \text{ oz} = \underline{1} \text{ lb } \underline{9} \text{ oz}$

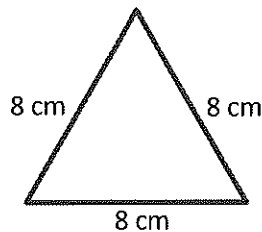
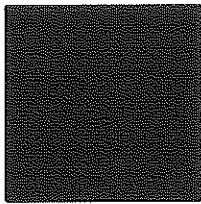
$12 \text{ lb} = 11 \text{ lb } 16 \text{ oz} - 10 \text{ lb } 7 \text{ oz}$

5. Write the fractions in simplest form. (VIDEO: SIMPLIFYING FRACTIONS)

a) $\frac{8}{10} = \frac{4}{5}$

b) $\frac{6}{18} = \frac{1}{3}$

6.



The square and triangle have the same perimeter. What is the perimeter?

Perimeter of triangle = $8 + 8 + 8 = 24$

24 cm

How long is the length of one side of the square? 6 cm

$24 \div 4 = 6$

What is the area of the square?

36 cm²

$6 \times 6 = 36$

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 3 Lesson 3



1. Multiply. (VIDEO: MENTAL MATH - MULTIPLICATION)

a) $505 \times 4 = \underline{\quad 2020 \quad}$
 (5 hundreds \times 4) + (5 ones \times 4)
 = 20 hundreds + 20 ones

b) $505 \times 5 = \underline{\quad 2525 \quad}$
 (5 hundreds \times 5) + (5 ones \times 5)
 = 25 hundreds + 25 ones

c) $505 \times 6 = \underline{\quad 3030 \quad}$

d) $505 \times 7 = \underline{\quad 3535 \quad}$

e) $505 \times 8 = \underline{\quad 4040 \quad}$

f) $505 \times 9 = \underline{\quad 4545 \quad}$

Encourage your child to notice the patterns in this sequence of problems... We are actually counting by units of 505 – 4 units of 505, then 5 units, etc.

2. Divide. (VIDEO: DIVISION)

a)
$$\begin{array}{r} 43 \text{ R } 4 \\ 8 \overline{)348} \\ \underline{32} \\ 28 \\ \underline{24} \\ 4 \end{array}$$
 3 hundreds + 4 tens = 34 tens
 - 32 tens
 2 tens + 8 ones = 28 ones
 - 24 ones
 4 ones

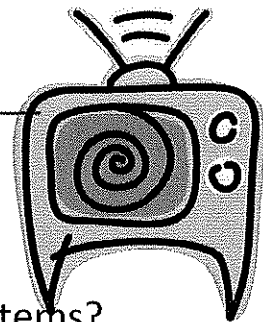
b)
$$\begin{array}{r} 127 \text{ R } 4 \\ 6 \overline{)766} \\ \underline{6} \\ 16 \\ \underline{12} \\ 46 \\ \underline{42} \\ 4 \end{array}$$
 7 hundreds
 - 6 hundreds
 1 hundred + 6 tens = 16 tens
 - 12 tens
 4 tens + 6 ones = 46 ones
 - 42 ones
 4 ones

3. A laptop computer costs \$1700. A television is \$970 cheaper than the laptop.

$1700 - 970 = \$730$ (Count on: 30 to 1000, then 700 more)

How much does the television cost? \$730

$1700 + 730 = 1000 + (700 + 700) + 30 = 1000 + 1400 + 30 = 2430$



How much money is needed to purchase both items?

 \$2430

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4.  Line A (VIDEO: MODEL DRAWING – FIND 2 NUMBERS)

 Line B

- a) Line B is 8 cm longer than Line A. What is the length of Line A if they are 26 cm long altogether?



$$2 \text{ units} + 8 = 26$$

$$2 \text{ units} = 26 - 8 = 18$$

$$1 \text{ unit} = 9$$

Line A is 9 cm long.

- b) How long is Line B? $9 + 8 = 17$

Line B is 17 cm long.

5. Circle the smaller fraction. (VIDEO: COMPARING FRACTIONS)

4-ninths is less than half (because half is 4½ ninths) and 3-fifths is more than half (because half is 2½ fifths), so $\frac{4}{9}$ is less than $\frac{3}{5}$.

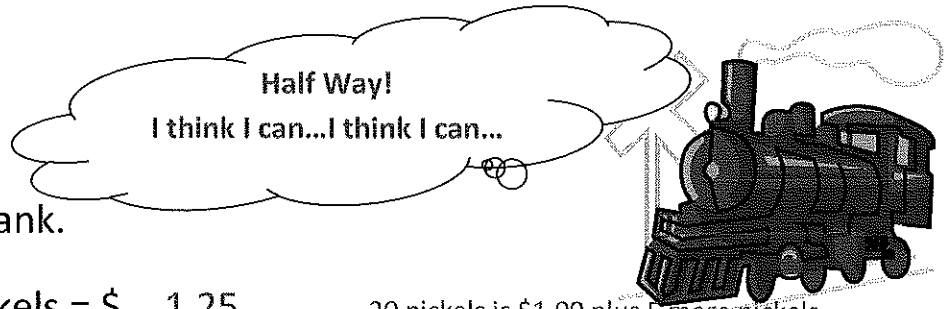
$$\left(\frac{4}{9} \right) \quad \frac{3}{5}$$

6. Find the missing number in each fraction. (VIDEO: SIMPLIFYING FRACTIONS)

$$\frac{4}{16} = \frac{2}{8} = \frac{1}{4}$$

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Week 4 Lesson 1



1. Fill in the blank.

a) 25 nickels = \$ 1.25 20 nickels is \$1.00 plus 5 more nickels

b) 20 dimes + 20 nickels = \$ 3.00
20 dimes is \$2.00 and 20 nickels is \$1.00

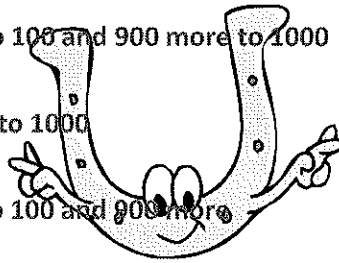
c) 7 quarters + 10 dimes + 7 nickels = \$ 3.10
4 quarters + 3 quarters = \$1 + 75¢, 10 dimes = \$1, 7 nickels = 35¢
\$2 + (75¢ + 35¢) = 2.00 + (75¢ + 25¢ + 10¢) = \$2 + (\$1 + 10¢) = \$3.10

2. I wish I had 1000...how many more do I need?

a) I have 75. 25 to 100 and 900 more to 1000 925

b) I have 935. 65 to 1000 65

c) I have 5. 95 to 100 and 900 more 995



3. Add or Subtract (VIDEO: ADDING WITH TRADING & SUBTRACTING WITH TRADING)

a)
$$\begin{array}{r} 1\ 1 \\ 4205 \\ + 2876 \\ \hline 7081 \end{array}$$
 6000+1000+70+11

b)
$$\begin{array}{r} 3\ 11\ 9\ 15 \\ 4205 \\ - 2876 \\ \hline 1329 \end{array}$$

c)
$$\begin{array}{r} 1\ 1 \\ \$22.80 \\ + 57.60 \\ \hline \$80.40 \end{array}$$

d)
$$\begin{array}{r} 6\ 16 \\ \$57.60 \\ - 22.80 \\ \hline \$34.80 \end{array}$$

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4. Solve. (VIDEO: ADDING AND SUBTRACTING FRACTIONS WITH LIKE DENOMINATORS)

a) $\frac{2}{7} + \frac{2}{7} = \underline{4/7}$ 2-sevenths + 2-sevenths = 4-sevenths

b) $1 - \frac{7}{9} = \underline{2/9}$ 1 whole is 9-ninths. 9-ninths – 7-ninths = 2-ninths

5. Cheryl, Leslie, and Pam painted a room. Cheryl and Leslie each painted $\frac{3}{7}$ of the room. How much of the room did Pam paint?

(VIDEO: ADDING FRACTIONS WITH LIKE DENOMINATORS)



$$3\text{-sevenths} + 3\text{-sevenths} = 6\text{-sevenths}$$

$$1 \text{ whole (room) is } 7\text{-sevenths}$$

$$7\text{-sevenths} - 6\text{-sevenths} = 1\text{-seventh}$$

Pam painted $\frac{1}{7}$ of the room.

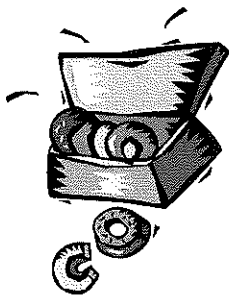


6. Mr. Jay made 720 donuts. A dozen donuts sell for \$4. How much money did Mr. Jay make if he sold all of his donuts?

$$1 \text{ dozen is } 12$$

$$720 = 72 \text{ tens} \div 12 = 6 \text{ tens} = 60$$

$$60 \times 4 = 6 \text{ tens} \times 4 = 24 \text{ tens} = 240$$



\$ 240

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Week 4 Lesson 2



1. Fill in the blanks.

a) $2000 = \underline{2}$ thousands = $\underline{20}$ hundreds = $\underline{200}$ tens.

b) In 10,284, the 1 is in the ten-thousands place.

c) 1937 is 100 less than 2037.

Rather than performing a vertical subtraction, encourage your child to think of 1937 as 19 hundreds + 37 ones. So 1 hundred more than that is 20 hundreds + 37 ones or 2037

2. Multiply or Divide

a) $6 \times 6 = \underline{36}$

b) $24 \div 8 = \underline{3}$

b) $4 \times 9 = \underline{36}$

d) $63 \div 7 = \underline{9}$

3. Use mental math to solve

a) $99 \times 3 = \underline{297}$ (VIDEO: MENTAL MATH MULT. NUMBERS CLOSE TO 100)

Think: 100 units of 3 is 300. We only have 99 units of 3 so take 1 unit of 3 away. $300 - 3 = 297$

b) $1000 - 238 = \underline{762}$

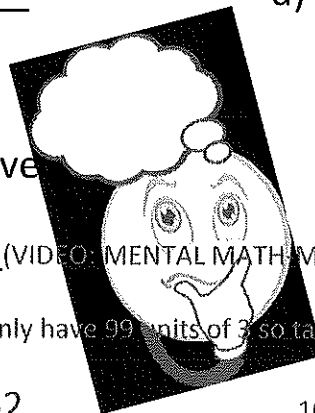
(VIDEO: MENTAL MATH 9 9 10)

$$1000 = 900 + 90 + 10$$

$$(900 - 200) + (90 - 30) + (10 - 8)$$

c) $3 \times 6 \times 10 = \underline{180}$

$$(3 \times 6) \times 10 = 18 \text{ tens} = 180$$



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4. Fill in the blank.

a) $5 \text{ L } 7 \text{ ml} + 9 \text{ L } 23 \text{ ml} = \underline{14} \text{ L } \underline{30} \text{ ml}$
 $14 \text{ L} = 14000 \text{ ml} + 30 \text{ ml}$
 $= \underline{14,030} \text{ ml}$

b) $490 \text{ days} = \underline{70} \text{ weeks}$ $49 \text{ tens} \div 7 = 7 \text{ tens} = 70$

c) $7 \text{ yd } 1 \text{ ft} - 4 \text{ yd } 2 \text{ ft} = \underline{2} \text{ yd } \underline{2} \text{ ft}$
 $7 \text{ yd} = 6 \text{ yd } 3 \text{ ft} + 1 \text{ ft} = 6 \text{ yd } 4 \text{ ft} - 4 \text{ yd } 2 \text{ ft}$

d) $12 \text{ lb } 10 \text{ oz} + 10 \text{ lb } 7 \text{ oz} = \underline{23} \text{ lb } \underline{1} \text{ oz}$
 $22 \text{ lb } 17 \text{ oz} = 22 \text{ lb} + (16 \text{ oz} + 1 \text{ oz}) = 23 \text{ lb } 1 \text{ oz}$

5. Write the fractions in simplest form. (VIDEO: SIMPLIFYING FRACTIONS)

a) $\frac{9}{27} = \frac{1}{3}$

b) $\frac{18}{27} = \frac{2}{3}$

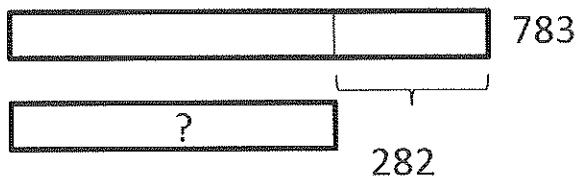
6. Circle the largest fraction. 4-fifteenths is less than $\frac{1}{2}$ and 4-ninths is greater than $\frac{1}{2}$
 (VIDEO: COMPARING FRACTIONS) so 4-ninths is greater than 4-fifteenths.

$\frac{4}{15}$

$\frac{4}{9}$

7. The difference between two numbers is 282. If the larger number is 783, what is the smaller number? 501

(VIDEO: MODEL DRAWING – FIND 2 NUMBERS)

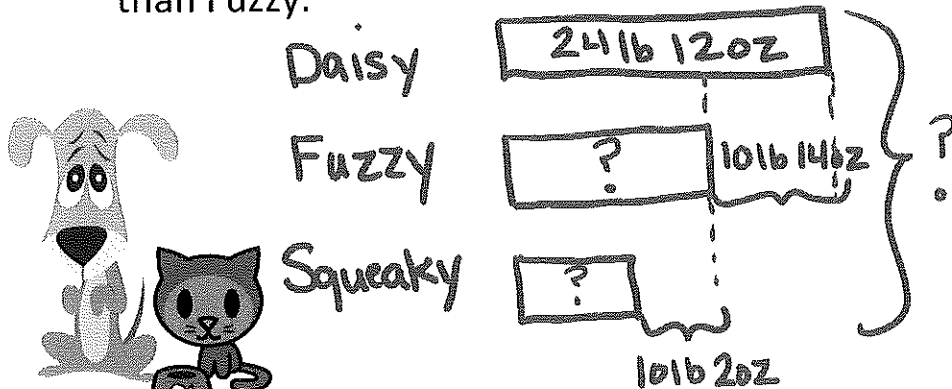


$1 \text{ unit} + 282 = 783$

$1 \text{ unit} = 783 - 282 = 501 = ?$

Singapore Summer Shape Ups: Level 3 – Thinking Guide

4. Daisy the dog weighs 24 lbs 12 oz. Fuzzy the cat weighs 10 lbs 14 oz less than Daisy. Squeaky the gerbil weighs 10 lbs 2 oz less than Fuzzy.



Fuzzy: $24 \text{ lbs } 12 \text{ oz} - 10 \text{ lb } 14 \text{ oz} = 23 \text{ lbs } 28 \text{ oz} - 10 \text{ lb } 14 \text{ oz} = 13 \text{ lb } 14 \text{ oz}$

Squeaky: $13 \text{ lb } 14 \text{ oz} - 10 \text{ lb } 2 \text{ oz} = 3 \text{ lb } 12 \text{ oz}$

Altogether: $24 \text{ lb } 12 \text{ oz} + 13 \text{ lb } 14 \text{ oz} + 3 \text{ lb } 12 \text{ oz} = 42 \text{ lb } 6 \text{ oz}$

How much does Fuzzy weigh? 13 lbs 14 oz

How much does Squeaky weigh? 3 lbs 12 oz.

How much do the three pets weigh altogether? 42 lbs 6 oz.

5. Solve.

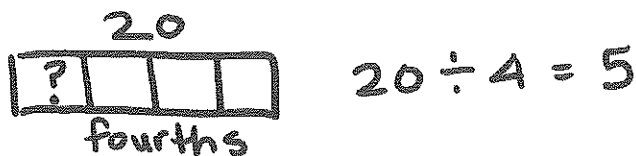
a) $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$ (VIDEO: ADDING FRACTIONS WITH LIKE DENOM.)

3 eighths + 4 eighths = 7 eighths

b) $1 - \frac{3}{16} = \frac{13}{16}$

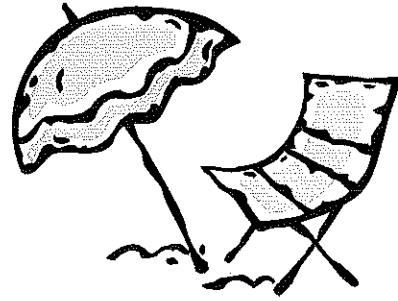
16-sixteenths - 3-sixteenths = 13-sixteenths

c) $\frac{1}{4}$ of 20 = 5 (VIDEO: MODEL DRAWING – FRACTION OF A WHOLE)



Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 5 Lesson 1



1. Fill in the blanks with numbers.

- a) 4000 is 930 more than 3070. 30 gets to 3100 and 900 more.
- b) The sum of 5600 and 450 is 6050. $5600 + 400 + 50 = 6000 + 50$
- c) The difference between 900 and 2400 is 1500.

2. I wish I had 2000...how many more do I need?

- a) I have 1600. 400 to 2000 400
- b) I have 910. 90 to 1000 then 1000 more 1090
- c) I have 1350. 50 to 1400 then 600 more 650

3. Add or Subtract (VIDEO: ADDING WITH TRADING & SUBTRACTING WITH TRADING)

$$\begin{array}{r} \overset{1}{\$}47.\overset{1}{3}5 \\ + \quad 29.05 \\ \hline \$76.40 \end{array}$$

$$\begin{array}{r} \overset{3}{\$}47.\overset{17}{3}5 \\ - \quad 29.05 \\ \hline \$18.30 \end{array}$$

4. Fill in the blank with cm, m, km, g, or kg.

- a) The weight of a brick. kg
- b) The width of a dinner plate. cm

Singapore Summer Shape Ups: Level 3 – Thinking Guide

5. Write $<$, $>$, or $=$ in each blank.

a) 67×100 $>$ 6070 6700 is greater than 6070

b) $7432 - 100$ $<$ $7432 - 99$ 100 is one more than 99, so taking 100 away from the whole will give a smaller number than taking away 99

6. Divide. (VIDEO: DIVISION)

a)
$$\begin{array}{r} 137 \\ 6 \overline{) 822} \end{array}$$

-6 hundreds

2 hundreds + 2 tens = 22 tens

- 18 tens

4 tens + 2 ones

= 42 ones

- 42 ones

0 ones

b)
$$\begin{array}{r} 115 \\ 8 \overline{) 920} \end{array}$$

- 8 hundreds

1 hundred + 2 tens = 12 tens

- 8 tens

4 tens + 0 ones

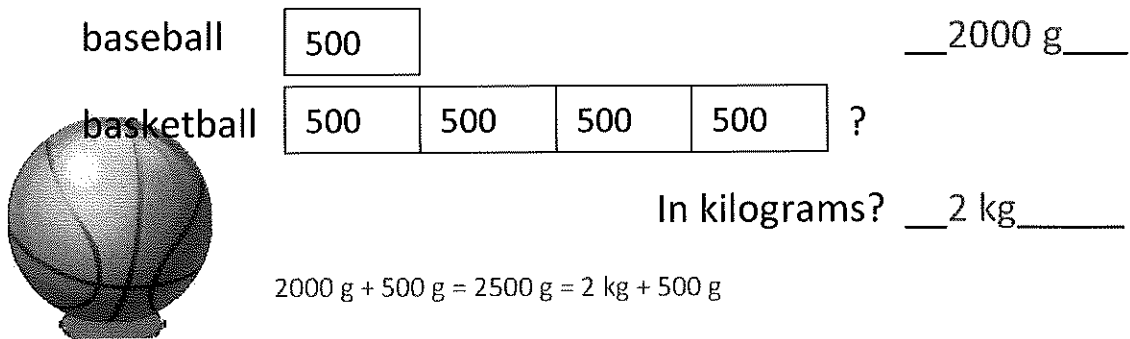
= 40 ones

- 40 ones

0 ones

7. A basketball weighs 4 times as much as a baseball. If the baseball weighs 500 g, how much does the basketball weigh in grams?

(VIDEO: MODEL DRAWING – TIMES AS MANY)



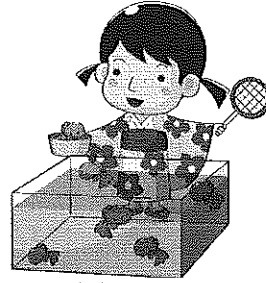
How much do the two balls weigh altogether in grams? 2500 g

In kilograms? 2.5 kg

Remember 1 kg = 1000 g

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 5 Lesson 2



1. Fill in the blanks.

a) $2,398 = \underline{2} \times 1000 + \underline{3} \times 100 + \underline{9} \times 10 + \underline{8} \times 1$

b) $9800 = \underline{98} \text{ hundreds} = \underline{980} \text{ tens} = \underline{9800} \text{ ones}$

c) The difference between 2376 and 999 is 1377.

$2376 - 1000 = 1376$, but only subtracted 999 so answer is 1 more = 1377

2. Fill in the blanks.

a) $17 \times 100 = 10 \times \underline{10} \times 17$ $17 \times (10 \times 10) = 17 \times 100$

b) $1400 \times 0 = \underline{0} \div 1400$

c) $20 \times 99 = \underline{4} \times 5 \times 9 \times 11$ $20 \times 99 = (4 \times 5) \times (9 \times 11)$

d) $4000 = 8 \times \underline{5} \times 10 \times 10$ $4000 = 40 \times 100 = (8 \times 5) \times (10 \times 10)$

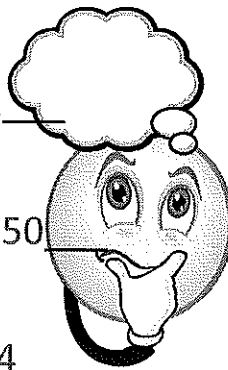
3. Use mental math to solve.

a) $4000 - 389 = \underline{3611}$ 11 to 400 then 3600 more

b) $\$100 - 47.50 = \underline{\$52.50}$ 50 cents to 48, then 52 to 100

c) $2127 + 997 = \underline{3124}$ $2127 + 1000 = 3127$, but 997 is 3 less than 1000, subtract 3 = 3124

d) $\$10.75 + \$8.50 = \underline{\$19.25}$ $18.00 + 1.25 = 19.25$



Singapore Summer Shape Ups: Level 3 – Thinking Guide

4. Fill in the blank.

a) $8052 \text{ ml} = \underline{8} \text{ L } \underline{52} \text{ ml}$ $8000 \text{ ml} = 8 \text{ L}$

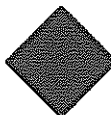
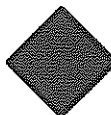
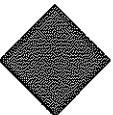
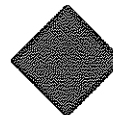
b) $9 \text{ L } 350 \text{ ml} = \underline{9350} \text{ ml}$ $9 \text{ L} = 9000 \text{ ml} + 350 \text{ ml}$

c) $7 \text{ years } 8 \text{ months} = \underline{92} \text{ months}$ $7 \text{ yrs} = 84 \text{ months} + 8 \text{ months}$

d) $9 \text{ yd } 2 \text{ ft} + 3 \text{ yd } 2 \text{ ft} = \underline{13} \text{ yd } \underline{1} \text{ ft}$
 $12 \text{ yd} + 4 \text{ ft} = 13 \text{ yd } 1 \text{ ft}$

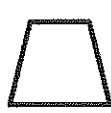
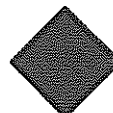
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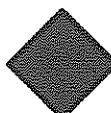
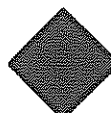

 \times  $= 49$  $= 7$

 $+$  $+$  $= 27$  $= 9$

 $+$  $+$  $= \underline{21}$

 \times  $= \underline{63}$

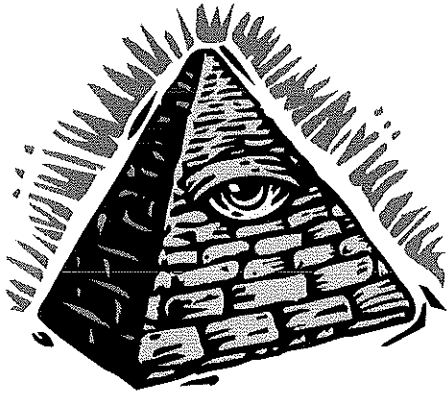
 $+$  $= \underline{16}$

 \times  \times  $= \underline{567}$

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 5 Lesson 3

1. Fill in the blanks




A square pyramid has 5 vertices and 8 edges.


A rectangular prism has 8 vertices and 12 edges.



2. Henry has 6 times as much money as Charlie.

a) If Henry has \$43.74, how much money does Charlie have?

Henry  } 43.74

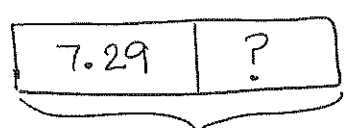
Charlie  ?

$$\begin{array}{r}
 7.29 \\
 6 \overline{) 43.74} \\
 \underline{-42} \\
 17 \\
 \underline{-12} \\
 54 \\
 \underline{-54} \\
 0
 \end{array}$$

Charlie has \$7.29

b) Charlie's mom gave him some money. Now he has \$12.50.

How much did his mom give him?

C's \$  \$12.50

$$\begin{array}{r}
 12.50 \\
 - 7.29 \\
 \hline
 5.21
 \end{array}$$

His mom gave him \$5.21

Singapore Summer Shape Ups: Level 3 – Thinking Guide

3. The length of a football field 120 yds. The width is 50 yds.

a) What is the perimeter of the field?

$$120 + 50 + 120 + 50 = 240 + 100 = 340$$



___340___yds

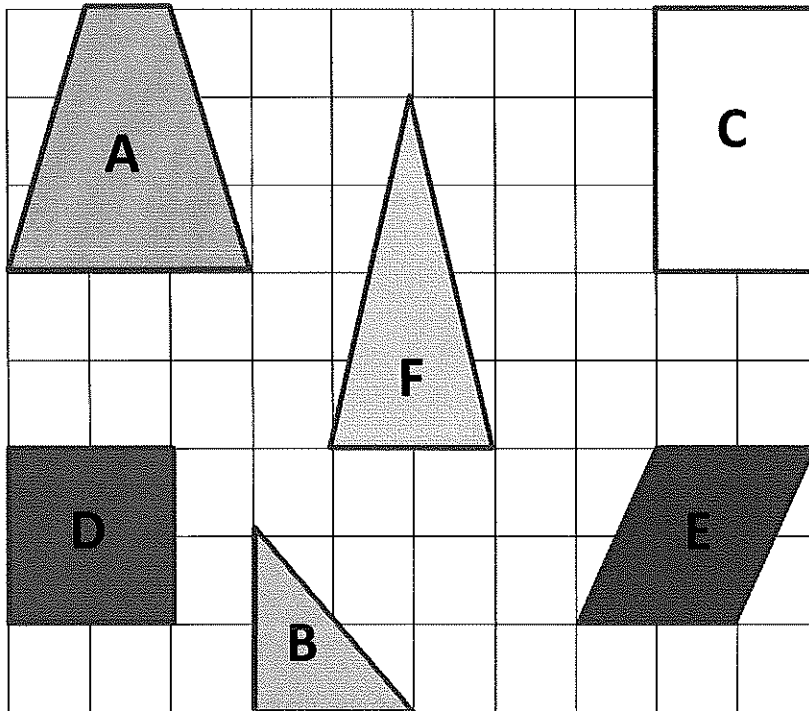
b) The track team runs 4 laps around the perimeter of the field, how far did the track team run?

$$\begin{aligned} 340 \times 4 &= 3 \text{ hundreds} \times 4 + 4 \text{ tens} \times 4 \\ &= 12 \text{ hundreds} + 16 \text{ tens} \\ &= 1200 + 160 \end{aligned}$$

___1360___yds

Singapore Summer Shape Ups: Level 3 – Thinking Guide

4.



Parallelograms have pairs of sides that are parallel. Figure E is a parallelogram, but all squares and rectangles are also parallelograms.

Rectangles are parallelograms with 4-right angles. Figure C is a rectangle, but all squares are also rectangles.

Rhombuses are parallelograms with 4 equal sides. All squares are rhombuses.

Which shape is a...

- a) Parallelogram ___C, D, E___ b) Rhombus ___D, E___
 c) Rectangle ___C, D___ d) Trapezoid ___A___

What is the area of figure D? ___4___ square units

Find area by simply counting units. Third graders have not been introduced to the formula for area.

What is the area of figure C? ___6___ square units

What is the area of figure B? ___2___ square units

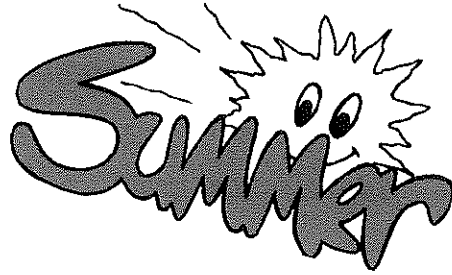
What type of triangle is figure B? ___right___ (acute, obtuse, right)

What type of triangle is figure F? ___isosceles___
 (equilateral, isosceles, scalene)

Right triangles are triangles with one right angle. Isosceles triangles at least 2 equal sides (equilateral triangles are also isosceles.) Scalene triangles have no equal sides.

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 6 Lesson 1



1. Fill in the blank.

a) 40 nickels = \$ 2.00

b) 17 dimes + 30 nickels = \$ 3.20 = 320 ¢
 17 dimes = 1.70 and 30 nickels = 1.50

c) 9 quarters + 14 dimes + 3 nickels = \$ 3.80
 2.25 + 1.40 + 0.15

2. I wish I had 3000...how many more do I need?

a) I have 1400.  1600
 600 to 2000 then 1000 more

b) I have 2350. 650
 50 to 2400 then 600 more

c) I have 900. 2100
 100 to 1000 then 2000 more

3. Add or Subtract (VIDEO: ADDING WITH TRADING & SUBTRACTING WITH TRADING)

a)
$$\begin{array}{r} 1\ 1 \\ 4205 \\ + 2876 \\ \hline 7081 \end{array}$$

b)
$$\begin{array}{r} 9 \\ 311\ 10\ 15 \\ 4205 \\ - 2876 \\ \hline 1329 \end{array}$$

c)
$$\begin{array}{r} 1\ 1 \\ \$22.80 \\ + 57.60 \\ \hline \$80.40 \end{array}$$

d)
$$\begin{array}{r} 6\ 16 \\ \$57.60 \\ - 22.80 \\ \hline \$34.80 \end{array}$$

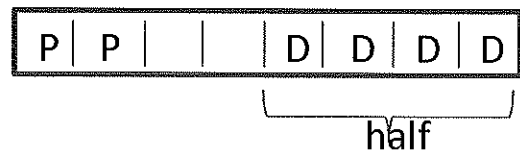
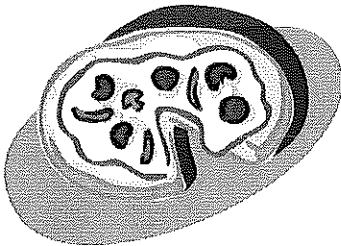
Singapore Summer Shape Ups: Level 3 – Thinking Guide

4. Solve. (VIDEO: ADD/SUBTRACT FRACTIONS WITH LIKE DENOM.)

a) $\frac{4}{10} + \frac{6}{10} = \underline{10/10} = \underline{1}$ (simplify)
 4-tenths + 6-tenths = 10-tenths

b) $1 - \frac{7}{11} = \underline{4/11}$
 1 whole is 11-elevenths – 7-elevenths = 4-elevenths

5. Phillip ate $\frac{2}{8}$ of a pizza. Daniel ate $\frac{1}{2}$ of the same pizza. Who ate the most pizza? Daniel ate the most pizza.



Students may reason about this problem in several ways. They may recognize that 2 eighths is the same as 1 fourth - which is less than $\frac{1}{2}$. They may also think of $\frac{1}{2}$ as 4 eighths which is more than 2 eighths.

If Tim came over and ate the rest of the pizza, how much did Tim eat?

Tim ate $\frac{2}{8}$ or $\frac{1}{4}$ of the pizza.

6. Fill in the blanks.

4 quarters = \$ 1 $\frac{1}{2}$ of a dollar = 2 quarters

10 dimes = \$1.00 $\frac{3}{10}$ of a dollar = 3 dimes

100 pennies = \$1.00 $\frac{1}{4}$ of a dollar = 25 pennies

Help your child reason about fractions of a dollar by thinking about what one tenth of a dollar is worth then 3 tenths. Build a connection between $\frac{1}{4}$ of a dollar as a quarter and a quarter as 25 pennies. Children can also use coins to build models of \$1.00 and then make equal parts.

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 6 Lesson 2



1. Fill in the blanks.

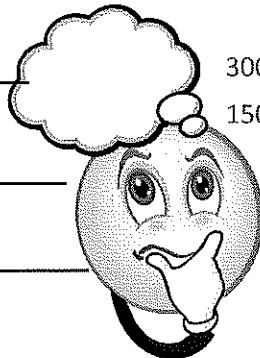
- a) 20,200 is 1000 more than 19,200.
- b) What is the difference between 1400 and 1304? 96
- c) 11,953 has 11 thousands.

2. Multiply or Divide

- a) $123 \times 3 = \underline{369}$
- 1 hundred $\times 3 + 2$ tens $\times 3 + 3$ ones $\times 3$
 $= 3$ hundreds $+ 6$ tens $+ 3$ ones
- b) $448 \div 4 = \underline{112}$
- 4 hundreds $\div 2 + 4$ tens $\div 2 + 8$ ones $\div 2$
2 hundreds $+ 2$ tens $+ 4$ ones
- b) $202 \times 4 = \underline{808}$
- d) $0 \div 7 = \underline{0}$

3. Use mental math to solve.

- a) $299 \times 5 = \underline{1495}$
- $300 \times 5 = 1500$, but we had 1 five less so
 $1500 - 5 = 1495$
- b) $33 \times 5 \times 2 = \underline{330}$
- $33 \times 10 = 33$ tens $= 330$
- c) $120 \times 4 \times 5 = \underline{2400}$
- $120 \times 20 = 120 \times 2 \times 10$
 $= 240$ tens $= 2400$

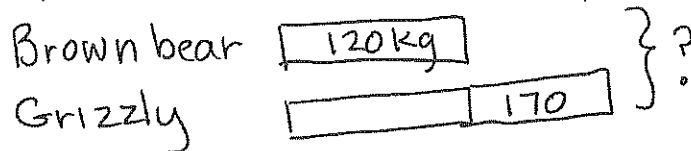


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4. The brown bear weighs 120 kg. The grizzly bear weighs 170 kg more. The giant panda bear weighs 3 times their total weight.

How much does the grizzly bear weigh?

(VIDEO: MODEL DRAWING – TIMES AS MANY)

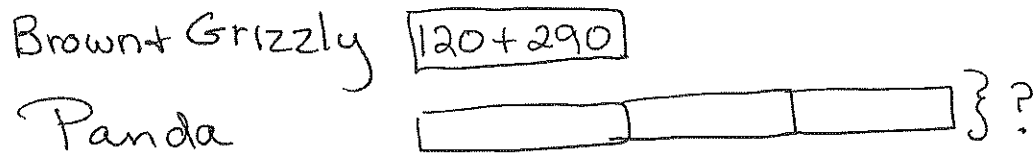


$$120 + 170 = 290$$

_____ 290 kg _____



How much does the panda weigh?



$$\begin{aligned} 410 \times 3 &= 400 \times 3 + 10 \times 3 \\ &= 1200 + 30 \\ &= \end{aligned}$$

_____ 1230 kg _____

5. Write the fractions in simplest form. (VIDEO: SIMPLIFYING FRACTIONS)

a) $\frac{8}{12} = \frac{2}{3}$

b) $\frac{5}{25} = \frac{1}{5}$

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6. Circle the largest fraction. (VIDEO: COMPARING FRACTIONS)

$8/15$ is more than $1/2$ and $11/24$ is less than $1/2$ so $8/15$ is larger than $11/24$.

$$\frac{8}{15}$$

$$\frac{11}{24}$$

7. The difference between two numbers is 451. If the smaller number is 892, what is the larger number? 1343

(VIDEO: MODEL DRAWING – FIND 2 NUMBERS)

Smaller

892

$892 + 451 = 12 \text{ hundreds} + 14 \text{ tens} + 3 \text{ ones}$

$1200 + 140 + 3 = 1343$

Larger

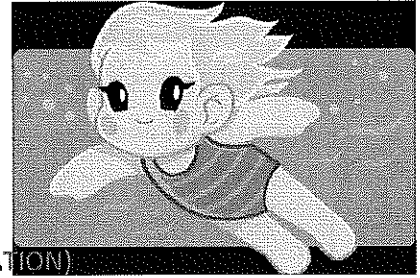
892

451

?

Singapore Summer Shape Ups: Level 3 – Thinking Guide

Week 6 Lesson 3



1. Multiply. (VIDEO: MENTAL MATH – MULTIPLICATION)

a) $299 \times 4 = \underline{\underline{1196}}$

299 is close to 300 so $300 \times 4 = 1200$,
but we have one less 4, so $1200 - 4 = 1196$

b) $299 \times 5 = \underline{\underline{1495}}$

c) $299 \times 6 = \underline{\underline{1794}}$

d) $299 \times 7 = \underline{\underline{2093}}$

e) $299 \times 8 = \underline{\underline{2392}}$

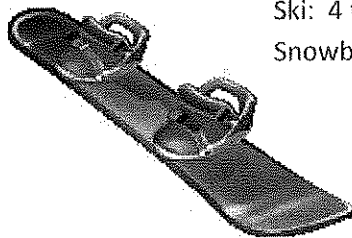
f) $299 \times 9 = \underline{\underline{2691}}$

2. Divide. (VIDEO: DIVISION)

a)
$$\begin{array}{r} 56 \text{ R } 4 \\ 6 \overline{)340} \\ \underline{34} \text{ tens} \\ \text{ tens} \\ \text{ tens} = 40 \text{ ones} \\ \text{ tens} \\ \underline{ 36} \text{ ones} \\ 4 \text{ ones} \end{array}$$

b)
$$\begin{array}{r} 88 \text{ R } 4 \\ 8 \overline{)708} \\ \underline{70} \text{ tens} \\ \text{ tens} \\ \text{ tens} = 68 \text{ ones} \\ \text{ tens} \\ \underline{ 64} \text{ ones} \\ 4 \text{ ones} \end{array}$$

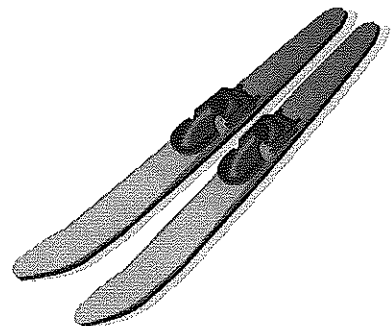
3. The length of one pair of skis is 4 ft 2 inches. The length of a snowboard is 40 inches.



Ski: $4 \text{ ft } 2 \text{ in} = 48 \text{ in} + 2 \text{ in} = 50 \text{ in}$
Snowboard: 40 in

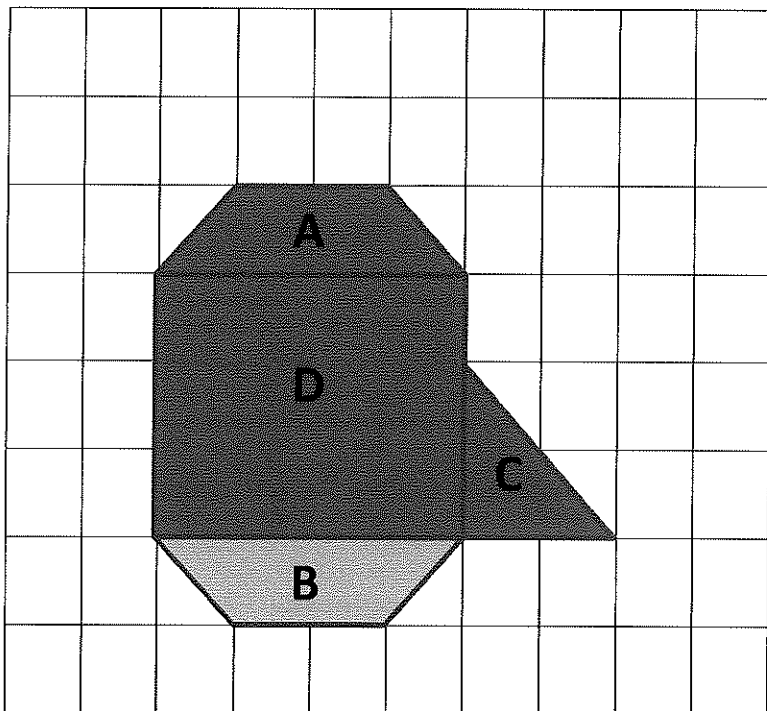
Which is shorter? Snowboard.

How much shorter? 10 in.



Singapore Summer Shape Ups: Level 3 – Thinking Guide

4. 3rd graders are learning that area is the space covered by a figure. No formulas for area here – just counting whole units and putting together half units!



- a) Figure A is a Trapezoid.
It's area is 3 square units.
- b) Figure C is a Triangle.
It's area is 2 square units.
- c) Figure D is a Square.
It's area is 12 square units.
- d) What is the total shaded area? 20 square units

5. Solve.

a) $\frac{9}{11} + \frac{7}{11} = \underline{16/11}$ is there another way to write that?

(VIDEO: ADD AND SUBTRACT FRACTIONS)

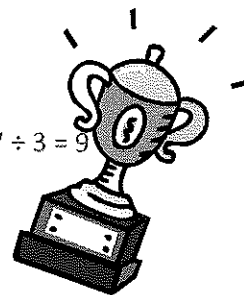
9-elevenths + 7-elevenths = 16-elevenths, 11-elevenths is one whole so 1 whole and 5-11ths

$$1 \frac{5}{11}$$

b) $1 - \frac{8}{23} = \underline{15/23}$ 1 whole is 23-23rds – 8-23rds = 15-23rds

c) $\frac{1}{3}$ of 27 = 9 1/3 of 27 means divide 27 into 3 pieces, $27 \div 3 = 9$

(VIDEO: MODEL DRAWING – FRACTION OF A WHOLE)



Congratulations! You've finished the summer Shape Up

