Level 19 Card 1 All times tables should be known x2 – x12 1. Write in words:

- a) 23, 567
- b) 652,190
- c) 130, 911
- d) 965, 040

# 2. Write in figures:

a. Three hundred and six thousand and seventeen

b. Nine hundred and twenty-two thousand and four

c. Thirty thousand, one hundred and twelve

d. Nine hundred and sixty thousand, two hundred and twentytwo

# 3. Write in expanded form

Example: 796,421 in expanded form is:

## 796,421=700000+90000+6000+400+20+1

# Level 19 Card 2

1. The Commutative Law is the law of *order*. It works for addition and multiplication but not for division and subtraction. We can swap numbers over and still get the same answer. Example:

47 + 86 = 133 and 86 + 47 = 133 (addition)

2 x 4 x 5 = 40 and 4 x 5 x 2 = 40 (multiplication)

Write these another way so that you still get the same answer:

a) 6 + 7 = 
$$\Box$$
 and  $\Box$  +  $\Box$  =  $\Box$ 

b) 12 + 6 =□ and □ + □ = □

c) 8 x 7 x 5 = 🗆 and 🗆 + 🗆 + 🗆 = 🗆

d)  $12 \times 4 \times 9 = \Box$  and  $\Box + \Box + \Box = \Box$ 

**2. The Associative Law** is the *grouping* law. It doesn't matter how we group the numbers, when we add or multiply. Example: (6 + 4) + 5 = 15 and 6 + (4 + 5) = 15 (addition)

 $(3 \times 2) \times 8 = 48$  and  $2 \times (3 \times 8) = 48$  (multiplication)

Write these another way:

a)  $2 + (4 + 5) = \Box$  and  $(\Box + \Box) + \Box = \Box$ 

b)  $(3 \times 4) \times 5 = \Box$  and  $\Box \times (\Box \times \Box) = \Box$ 

c)  $8 \times (4 \times 3) = \Box$  and  $(\Box \times \Box) \times \Box = \Box$ 

## 1. The Distributive Law

## Example:

- 846 x 8 We multiply every part of 846 by 8 ...
- (800 + 40 + 6) x 8

 $= (800 \times 8) + (40 \times 8) + (6 \times 8)$ 

- = 6400 + 320 + 48
- = 6000 + (400 + 300) + (20 + 40) + 8
- = 6768

## Work these out the same way:

- a) 729 x 6
- b) 356 x 9
- c) 438 x 4
- d) 739 x 7
- e)
- 2. Number facts Work out these in your head!
  - a) 4 + 7 = 24 + 7 = 564 + 7 =
  - b) 4 + 7 = 40 + 70 = 400 + 700 =

## Level 19 Card 4

- 1. Finish the counting:
  - a) 10, 1, 9, 2, 8, 3, \_ , \_, \_, \_, \_, \_, \_, \_, \_, \_, \_,
  - b) .25, 5.0, 7.5, 1.00, 1.25, \_\_, \_\_, \_\_, \_\_, \_\_,
- 2. Keep on doubling:
- 3. Keep on halving:
- 4. FactorsWrite all the factors of: a) 8 b)9 c) 12

# 5. Prime numbers

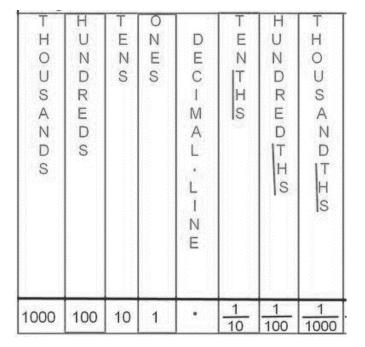
A prime number is a whole number with exactly two factors, itself and 1. Examples:

The number 5 is a prime number because it cannot be divided evenly by any other numbers except for 5 and 1. The number 4 is not a prime number because it can be divided evenly by 4, 2, and 1.

Make a list of all the prime numbers from 1 to 41.

6. Count by ordinal numbers from  $20^{th}$  to  $30^{th}$ .

#### Place value of decimals



Draw up a place value chart like this one. Now write these numbers in the place value chart in the right columns:

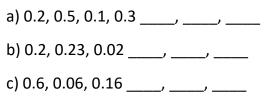
1. 72, 547.6	b) 84.073	c) 102.45	d) .87
e) 5.9076	f) 73.0006	g) 109.642	h) 0.0001
i) 7.0853	j) 1672.001	k) 2.5	l) 908.75
Write as fraction	<b>is</b> , e.g. 0.003 = $\frac{1}{1}$	<u>3</u> 00	

a) 0.4 b) 21.092 c) 1.2345 d) 78.25 e) 590.1

#### Level 19 Card 6

#### Decimals

1. Arrange these decimals in ascending order:



d) 2.6, 0.62, 0.26 \_\_\_\_, \_\_\_\_, \_\_\_\_

e) 0.7, 0.76, 0.07 \_\_\_\_, \_\_\_\_, \_\_\_\_

2. Arrange these decimals in descending order:
a) 0.3, 0.6, 0.4, 0.1 \_\_\_\_, \_\_\_, \_\_\_\_, \_\_\_\_
b) 4.5, 4.05, 5.4 \_\_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_
c) 2.7, 2.74, 2.47 \_\_\_\_, \_\_\_\_, \_\_\_\_\_
d) 5.07, 7.05, 0.57 \_\_\_\_, \_\_\_\_, \_\_\_\_\_
e) 11.11, 11.01, 11.1 \_\_\_\_, \_\_\_\_, \_\_\_\_\_
e) 11.11, 11.01, 11.1 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
3. Addition of decimals. Set these out first
a) 7.35 + 16.025 + 124.3
b) 0.86 + 76.3 + 126.025
c) 9.75 + 54.096 + 1000.1

1.Addition of decimals. Set these out first.

a) 48.39 + 26.29

b) 35.78 + 36.28

c) \$343.56 + \$448.67

d) 29.23m + 23.73m +12.36m

e) \$29.37 + \$30.38

f) 432.29 kg + 364.57kg + 496.87kg

g) \$164.73 + \$237.38 + \$18.96+\$338.70

2. Subtraction of decimals. Set these out first.

1.0.7 – 0.4 =

2.0.9 – 0.6 =

3. 1.2 – 0.7 =

4.3.3 – 0.9 =

5.1.1 - 0.5

6. 57.28–29.58 =

7.94.32–29.38 =

8. \$732.26 - \$43.75

Level 19 Card 8 Multiplication of decimals 1.Multiply by 10 Example: Find  $10 \times 0.49 = ?$ Solution: Move the decimal point one step to the right.  $10 \times 0.49 = 04.9$  (remove zero) = 4.9 a)  $10 \times 0.89 =$ b)  $10 \times 1.589 =$ c)  $10 \times 50.37 =$ d)  $10 \times 398.56 =$ 2.Multiply by 100

Example: Find 100 x 2.65 = ? Solution: Move the decimal point two steps to the right. Answer: 265 a) 100 x 34.87 = b) 100 x 3.255 = c) 100 x 600.49 = d) 100 x 4976.09 =

**Multiplication of decimals** 

Multiply by 1000

Move the decimal point 3 steps.

Example:  $1000 \times 0.043 = 43$ 

Multiply these decimals by 1000:

a) 1000 x 0.23 =

b) 1000 x 2.34 =

c) 1000 x 0.003 =

d) 1000 x 14.02 =

#### **Division of decimals**

Set these out first: a) 9.1 ÷ 7 = b) 72.5 ÷ 5 = c) 7.8 ÷ 2 = d) 62.32 ÷ 4 = e) 43.17 ÷ 3 = f) 98.6 ÷ 6 = g) 10.05 ÷ 5 = h) 42.01 ÷ 8 = i) 90.02 ÷ 3 = j) 725.1 ÷ 2 -

## Level 19 Card 10 Practical Problems

1.Mr Josefa bought 10 pigs, 8 goats and 15 sheep. The pigs cost \$30 each. The goats cost \$10 each and the sheep cost \$15 each. How much did he pay altogether?

2.Mary has a \$5 note. She exchanges it with her brother Sam for some coins worth \$5. What is the largest number of coins that Sam can have given Mary?

3.Georgia has \$5. She buys a nut bar for \$1.10. How much change does she get?

4. Aria has \$10. She gets \$4.60 change after buying a packet of rice biscuits. How much do the biscuits cost?

5.Oliver pays for \$1.10 for two apples. He gets 90 cents change. How much money did he give to the person at the checkout?

6.Ben has a box with a number in it that is greater than 7.Moana has a box with a number in it that is less than 9.Tom has a box with a number in it that is greater than 5.They all have the same number. What is it?

#### 1. Addition

- a) What is the total of the following numbers? 345,268 + 459 + 69 + 72,839 + 6,423
- b) Find the sum of 127,456 and 17,847
- c) To the sum of 414,940 and 150,055, add the sum of 190,099 and 330,013
- d) In a town there are 169,874 men, 137,689 women and 43,847 children. What is the town's population?
- e) What is 268,789 more than 187,964?

## 2. Subtraction

- a) 4,567 is □ less than 732,456?
- b) 346,914 is □ more than 247,907?
- c) Subtract 210,568 from 864,279
- d) Subtract 824 from 1 million
- e) What is 4890 less than 1 million?

# 3. Problem solving

- a) Bill working out Bill's name in numbers.
  - If A = 1a, B = 2a, C = 3a, D = 4a, E = 5a, F = 6a, G = 7a and so on, the value of Bill's name is 2a + 9a + 12a + 12a = 40a.

What is the value of your name? Write it as an equation.

 b) Some octopuses, fish and crabs are in a rock pool. Altogether there are 56 arms, 5 tails and 30 legs in the pool. How many of each animal?

# Level 19 Card 12 Percentages %

A percentage (%) is the fraction "one hundredth" or 1/100. So, 1 % of 100 = 1 Let's learn these:

 $25\% = \frac{25}{100} = \frac{1}{4} \qquad 50\% = \frac{50}{100} = \frac{1}{2} \qquad 75\% = \frac{75}{100} = \frac{3}{4}$ 

- a) There are 200 children in a school. 50% are girls. How many boys are there?
- b) There are 500 cows on a farm. 25% of them are brown and 75% are black. How many are brown?
- c) A fisherman caught 150 fish. 25% are swordfish, 25% are tuna and 50% are catfish. How many of each type of fish?
- d) In a class of 28 students, 7 did not do their homework. What fraction of the class did *not* do their homework? What percentage of the class *did* their homework?
- e) In a test a student got 10 out of 20 right. What percentage did the student get for the test?
- f) A shepherd had 100 sheep He lost one. What percentage of his sheep did he lose?
- g) A lady had 10 coins. She lost one. What percentage of her coins did she lose? (One in 10 is like 10 in 100).
- h) 5 cents is what percentage of \$1?
- i) I had \$100 and spent \$80. What percentage of the money did I spend?

## Proper fractions, improper fractions and mixed numbers

A proper fraction is when the top number (the numerator) is less than the bottom number (the denominator), and it is between 0 and 1, e.g.  $\frac{1}{4}$ 

An improper fraction is the opposite: the top number is greater than the bottom number, e.g.  $\frac{12}{4}$ 

A mixed number is a whole number plus a proper fraction, e.g.  $1\frac{1}{2}$ 

To change an improper fraction to a proper fraction or mixed number, we divide the numerator by the denominator, e.g. for  $\frac{12}{4}$ , divide the 12 by 4. The answer is 3.

1. Change these improper fractions to whole numbers:

a)  $\frac{9}{3} = \Box$ b)  $\frac{15}{5} = \Box$ 

But what if there is a remainder? e.g.  $\frac{16}{5}$ We divide 16 by 5 and get 5 and 1 over. That's  $5\frac{1}{5}$ 

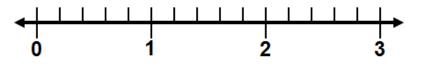
1. Make these into mixed numbers:

a)  $\frac{21}{2}$  b)  $\frac{38}{5}$  c)  $\frac{59}{7}$  d)  $\frac{101}{10}$  e)  $\frac{46}{6}$  f)  $\frac{28}{3}$ 

2. Now change these to improper fractions:

a) 
$$1\frac{1}{2}$$
 b)  $8\frac{4}{5}$  c)  $11\frac{3}{10}$  d)  $20\frac{2}{3}$  e)  $15\frac{1}{2}$  f)  $12\frac{3}{4}$ 

3. Draw this number line and write in all the numbers, including fractions:



## Level 19 Card 14 Test (All times tables should be known)

- 1. Write in words: 121,911
- Write in figures: forty-two thousand, three hundred and nine
- **3.** In the number 627,943, the 6 is worth 600, 000. What is the 2 worth?
- **4.** Write this equation another way so that you still get the same answer:

 $(5 \times 2) \times 10 = \Box$  and  $\Box \times (\Box \times \Box) = \Box$ 

- **5.**  $231 \times 3 = (200 \times 3) + (30 \times 3) + (3 \times 3) = \Box$
- **6.**  $3 + 6 = \Box$   $30 + 60 = \Box$   $300 + 600 = \Box$
- 7. Which of these are prime numbers:

a) 9 b) 12 c) 15 d) 11

- 8. Arrange these from smallest to largest:
  - .765 1.6 .02 3.02
- 9. Addition: set out before working it out.
  6.75 + 192.2 + 3000.65 = □
- **10.** Subtraction: set out before working it out.
  - 1.1 0.5
- **11.**a) 654.3 x 10 = 🗆

b) 72.08 x 100 = □

- **12.** There were 100 people in a long-distance race. 12 people finished in 15 minutes. What percentage is this?
- **13.** Change  $\frac{17}{5}$  to a mixed number.
- **14.** Change  $1\frac{1}{2}$  to an improper fraction.

Level 20 Card 1 All times tables should be known x2 - x12 Square numbers

When you multiply a whole number times itself, you get a square number. So, 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144, and so on, are all square numbers, (e.g. 1x1 = 1; 2x2 = 4)

1. Make a list of square numbers up to 144 by completing this list:

1 x 1 = **1** 2 x 2 = **4** keep going up to ... 12 x 12 = **144** 

We can show a square number like this:

 $2^2$  is 2 "squared" or 2 x 2.

2. Write these numbers as "squared".

 $2 \times 2 = 2^{2}$ 3 x 3 = 3<sup>2</sup> keep going up to  $12^{2}$ 

## Index numbers

An index number is when you multiply a number by itself as many times as shown by the smaller number, e.g.

 $3^3 = 3 \times 3 \times 3 = 27$ 

3.Set out these index numbers the same way.

 $2^{5} =$  $4^{3} =$  $5^{3} =$ 

4.Show these numbers as square numbers or index numbers:

25 = 🗆 x 🗆 8 = 🗆 x 🗆 x 🗆 = 🗆 27 = 🖸	□ x □ x □ = □
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## Level 20 card 2

## **Place value**

- 1. Write in words: 729,264.
- 2. Write in figures: nine hundred and fifty-four thousand and three.
- 3. Round these numbers to the nearest 10:
  - a) 32,579 b) 654,922 c) 89,999 d) 26,784
- 4. Round these numbers to the nearest 100:
  - a) 329,644 b) 23,879 c) 4,098 d) 379,009
- 5. Round these numbers to the nearest 1000:
  - a) 267,908 b) 367,864 c) 643,863 d) 257,074
- 6. Round these numbers to the nearest  $\frac{1}{10}$ 
  - a) 265.12 b) 896.28 c) 290,755.08 d) 362,075.91

## **Prime factors**

A Prime Factor is a factor that is a prime number. In other words: any of the prime numbers that can be multiplied to give the original number. Example: The prime factors of 15 are 3 and 5 (because  $3\times5=15$ , and 3 and 5 are prime numbers).

Make a list of prime numbers between 2 and 17. Write the prime factors of each of these. Remember that you can only use prime numbers for the factors:

a) □ x □ = 4	b) □ x □ =14
c) □ x □ = 33	d) □ x □ = 51
e) □ x □ = 35	f) □ x □ = 26
g) □ x □ = 57	h) □ x □ = 55

#### Level 20 Card 3

Ascending and descending order of numbers

1. Write this set of numbers in ascending order:

42,537 47,235 72,543 37,452 54,723

#### 2. Write this set of numbers in descending order:

42,537 47,235 72,543 37,452 54,723

#### 3. Rounding Numbers

Copy the number in the line which is nearest in value to the number in bold print:

a) **5,736** 700 5,000 6,000 7,000

b) **24,560** 26,000 23,000 25,000 24,000

c) **384,505** 38,000 380,000 400,000 84,000

d) **153,489** 200,000 100,000 150,000 15,000

4. Addition in your head

a) 93,483 + 10 =

b) 763,201 + 100 =

c) 67,928 + 1000 =

d) 24,875 + 10,000 =

#### Level 20 Card 4

1. Write ea	ch set of r	numbers	in ascen	ding	order.
a) 30,378	73,830	80,337	80,733	33,7	708
b) 510,871	108,752	705,18	34 817,	053	758,102
2) Write ea	ch set of r	numbers	in desce	endin	g order.
a) 683,216	642,136	651,33	36 673,	126	653,621
b) 496,878	485,879	486,79	98 485,	978	487,689
2. Decimals					
23.3 = 273 t thousandth		73 = 273	hundred	ths	273 = 273
a) 45.2 = 🗆 1	tenths	b) 6	5.85 = ⊡ ł	nundi	redths

c)  $.753 = \Box$  thousandths d)  $1.00 = \Box$  hundredths

#### 3. Inverse operations

Addition and subtraction are opposites. When you adjust one element, you just adjust the other to keep the answer the same. In your head:

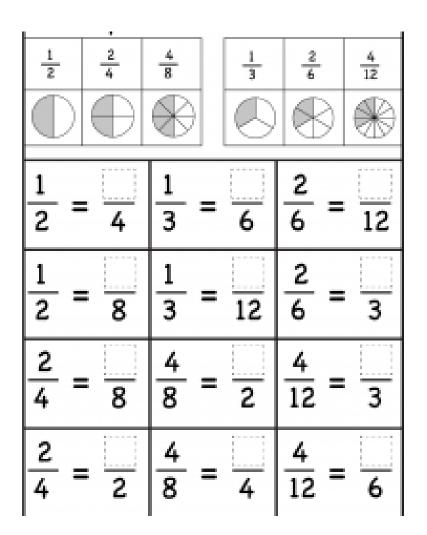
a) 8+9=17	b) 16 – 9 = 7
12 + 🗆 = 17	18 - 🗆 = 7
□ + 3 = 17	□ − 13 = 7

Multiplication and division are opposites:

c)12 x 5 =  $\Box$  d)  $\Box \div \Box = \Box$ 

# Level 20 Card 5 Equivalent Fractions

Fill in the missing numbers.

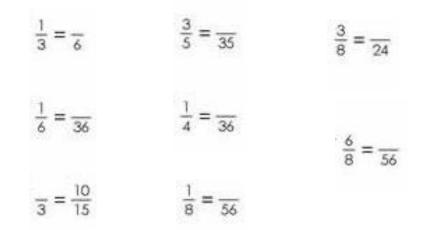


## Level 20 Card 6 Equivalent fractions: changing the denominator (bottom)

These fractions are really the same:  $\frac{1}{2} = \frac{2}{4}$ 

We multiply the bottom number (2) by 2 and we get 4. Now we must multiply the top number (1) by 2 to get 2

Try these. Remember, whatever you multiply the bottom number by, you must do the same for the top.

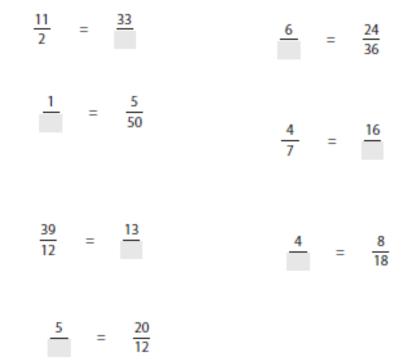


Level 20 Card 7	
Equivalent Fractions: changing the denominator (b	oottom)

$\frac{3}{4} = \frac{1}{8}$	$\frac{4}{6} = \frac{1}{3}$	1/2 " 10
$\frac{6}{12} - \frac{1}{6}$	$\frac{1}{3} - \frac{1}{6}$	$\frac{1}{6}$ • $\overline{12}$
$\frac{5}{10} - \frac{1}{6}$	$\frac{2}{3} - \frac{1}{9}$	$\frac{2}{4} - \frac{1}{6}$
$\frac{1}{4} = \frac{1}{12}$	$\frac{6}{9} = \frac{1}{3}$	2/5 ° 10
<del>6</del> /8 = 12	<del>5</del> - 14	14 16 * 8

## Level 20 Card 7 Equivalent fractions: changing the numerator (top)

Step 1: Find out what the numerator is multiplied by. Step 2: Multiply the denominator by the same.



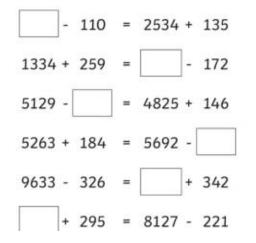
Level 20 card 9

#### Equations

1. Use BOMDAS (by, of, multiply, divide, add subtract)

a) 
$$\frac{5}{8} \times 40 + 56 \div 7 - (\frac{2}{3} \times 9 - 4) = \Box$$
  
b)  $\frac{2}{3}$  of  $33 - (\frac{5}{6}$  of  $12) = \Box$   
c)  $12 - 9 + 11 \times 3 \times 12 = \Box$   
d)  $7 - 1 \times 14 + 7 - 3 = \Box$   
e)  $6 + 72 \div 9 = \Box$   
f)  $7^2 + (\frac{1}{2} \text{ of } 32) - 27 = \Box$   
g)  $5^3 - (\frac{2}{3} \text{ of } 21) + 14 = \Box$ 

## 2. Find the missing numbers



3. Make as many equations as you can from the numbers
5, 3 and 2. Example: (5+3) ÷ 2 = 4

# Level 20 Card 10 Solving simple real-life problems using fractions 1. Ray bought a loaf of bread and ate $\frac{1}{4}$ of it while his friend ate $\frac{1}{2}$ . What fraction of the bread did they eat altogether? 2. For breakfast one morning Mum made 10 rotis. Ram ate $2\frac{1}{2}$ , Bimla ate $1\frac{1}{3}$ , Priya ate $1\frac{1}{4}$ . a) How much roti did the children eat? b) How much roti was left? 3. Jone dug a rectangular garden which was $\frac{2}{3}$ m long and $\frac{1}{3}$ m wide. What was the length of the garden in cm? 4. Karan bought a material which was $3\frac{1}{2}$ m long. He used $2\frac{1}{2}$ m for his shirt. How much material was left? 5. From a half watermelon Lee ate $\frac{2}{16}$ and Suzie ate $\frac{1}{4}$ . a) How much watermelon did they eat altogether? b) How much was left? 6. A whole pizza was equally divided into 16 pieces. If Jane ate one quarter of the pizza: a) how many pieces did she eat? b) how much was left? (answer in fraction and pieces) 7. Vili ate three pieces of pie. If each piece is $\frac{1}{8}$ how much pie did he eat? 8. A tin of paint was $\frac{2}{3}$ litres full. Bill used $\frac{1}{2}$ of the paint to paint his table. How much was left?

## Level 20 Card 11 Addition and subtraction of fractions

#### Set 1

1) 
$$\frac{1}{10} + \frac{7}{10} =$$
  
2)  $\frac{1}{5} + \frac{1}{5} =$   
3)  $\frac{2}{9} + \frac{2}{9} =$   
4)  $\frac{1}{12} + \frac{2}{12} =$   
5)  $\frac{2}{9} + \frac{3}{9} =$   
6)  $\frac{6}{7} - \frac{2}{7} =$   
7)  $\frac{8}{11} - \frac{6}{11} =$   
8)  $\frac{2}{4} - \frac{1}{4} =$   
9)  $\frac{10}{12} - \frac{8}{12} =$   
10)  $\frac{2}{6} - \frac{1}{6} =$ 

#### Set 2

$$1) \frac{1}{2} + \frac{1}{4} = 6) \frac{5}{6} - \frac{1}{3} = 2) \frac{2}{3} + \frac{1}{6} = 7) \frac{9}{10} - \frac{1}{2} = 3) \frac{3}{10} + \frac{2}{5} = 8) \frac{9}{14} - \frac{1}{7} = 3) \frac{3}{10} + \frac{2}{5} = 9) \frac{9}{14} - \frac{1}{7} = 9) \frac{9}{20} - \frac{1}{4} = 5) \frac{3}{18} + \frac{4}{9} = 10) \frac{7}{8} - \frac{3}{4} = 30$$

# Level 20 Card 12 Addition of fractions

5	$\frac{1}{2}$	+	23	=	2	$\frac{1}{7}$	+	$\frac{1}{5}$	=	3	36	+	1/2	=
4	4	+	1/4	=	6	78	+	1/4	=	0	2/3	+	1/3	=
7	26	+	3 6	=	6	1/5	+	4 5	=	9	24	+	$\frac{1}{3}$	=
10	1/4	+	4 8	=	11	2 5	+	<u>1</u> 5	=	12	23	+	1 5	=
19	27	+	516	=	14	4 6	+	4 8	=	15	2/3	+	18	=
18	2/3	+	3/10	=	17	34	+	1 3	=	18	1/3	+	3 5	=

## Level 20 Card 13 Subtraction of fractions

1) 
$$\frac{5}{8} - \frac{7}{16} =$$
  
2)  $\frac{1}{2} - \frac{1}{4} =$   
3)  $\frac{1}{2} - \frac{3}{8} =$   
4)  $\frac{11}{16} - \frac{1}{2} =$   
5)  $\frac{3}{4} - \frac{9}{16} =$   
6)  $\frac{3}{4} - \frac{3}{8} =$   
7)  $\frac{1}{4} - \frac{1}{8} =$   
8)  $\frac{7}{8} - \frac{7}{16} =$   
9)  $\frac{5}{8} - \frac{1}{2} =$   
10)  $\frac{15}{16} - \frac{3}{4} =$ 

Level 20 card 14 **Test** All times tables should be known. 1. Write in words:231, 567 2.  $8433 - 184 = \Box + 1842$ 3.  $2^2 = 2 \times 2 = 4$ . What is  $3^2$ ? 4. Round these numbers to the nearest 1000: a) 267,908 b) 367,864 5. a)  $\frac{2}{3} = \frac{1}{12}$  b)  $\frac{3}{5} = \frac{1}{15}$ 6. a)  $\frac{7}{8} = \frac{14}{2}$  b)  $\frac{3}{9} = \frac{12}{2}$ 7. a)  $\frac{1}{3}$  of 30 – ( $\frac{3}{4}$  of 12) =  $\Box$  b)(12 – 9) + 11 x 3 x 12 = 8. a)  $\frac{3}{10} + \frac{4}{5} = \Box$  b)  $\frac{1}{6} + \frac{2}{3} = \Box$ 9. a)  $\frac{3}{4} - \frac{1}{2} = \Box$  b)  $\frac{5}{8} - \frac{1}{4} = \Box$ 10. Convert these improper fractions to mixed numbers: a)  $\frac{23}{5}$  b)  $\frac{42}{8}$ 11. At your birthday party you had 6 pizzas. Each pizza was divided into 8 pieces. 41 pieces were eaten. What fraction of

12. Jasmine has 50 marbles in a bag. 20% of the marbles are blue. How many are blue?

a pizza was left?

Level 21 Card 1 All times tables should be known x2 – x12	Level 21 Card 2
1. Write in words:	1. Multiplication of whole numbers (Set out first)
a) 54,209 b) 756,003 c) 1,000,000	a) 34 x 24 =
2. Addition of whole numbers	b) 74 x 46 =
	c) 345 x 35 =
Set these out first:	d) 287 x 64 =
a) 525 + 468 =	e) 62453 x 35 =
b) 4,566 + 3,236 =	f) 42546 x 23 =
c) 71,432 + 25,918 =	g) 358374 x 32 =
d) 549,584 + 657,549 =	h) 413675 x 36 =
e) 4,261,345 + 2,746,855 =	2. Multiplying by 10, 100 and 1000 (Look at the examples first):
	53 x 10 = 530 add 1 zero
3. Subtraction of whole numbers	528 x 100 = 52,800 add two zeros
Set these out first:	7,031 x 1,000 = 7,031 ,000 add three zeros
a. 342 – 126 =	Try these:
b. 5,644 – 2,327 =	a) 43 x 10 = b) 76 x 100 = c) 35 x 1000 =
c. 37,657 – 13,548 =	d) 365 x 10 = e) 374 x 100 = f) 54 x 1000 =
d. 813,782 – 302,579 =	g) 93,744 x 10 = h) 32,81 x 100 = i) 936,789 x 1000 =
e. 624,952 –515,798 =	j) 4,769 x 10 = k) 791 x 100 = l. 604,456 x 1000 =

Short division

Example:

362 ÷ 7 =

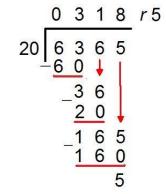
$$5 1 r5$$
  
7 3 6 <sup>1</sup>2

362 ÷ 7 = 51 r5

## Try these

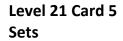
3 )701	4 )591	4 )781	2 )359	9 )958
8 )801	7 )755	7 )811	5 )514	6 )727
6 )920	6 )833	9 )923	2 )777	9 )933
5 )734	5 )562	2 )471	3 )473	8 )867

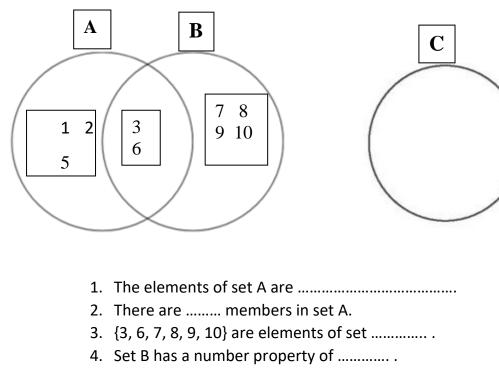
# Level 21 card 4 Vertical division (Long division) Example:



Try these:

11 1089	16960	17 1292
25 1250	27 1377	13884
21 798	25 1050	27 2052



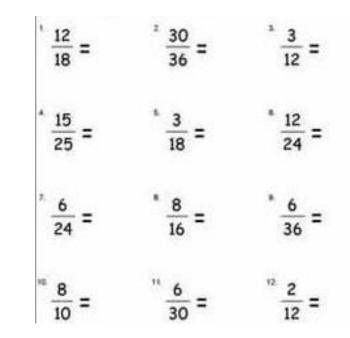


- 5. Set AUB = {.....} (union)
- 6. Set A∩B = {.....} (intersection)
- 7. There are .....members in set C.
- Set C is a .....set or empty set. We write a null set as { }.
- 9. Write a set of Whole numbers less than 15.

{......}

## Level 21 Card 6

**Reducing fractions to lowest terms** 



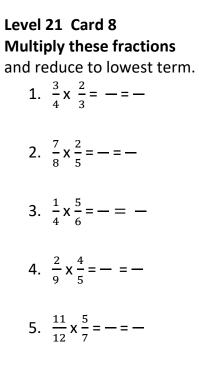
## Level 21 Card 7 Multiplying fractions

Example:

1,2	_ 1	х	2	2
$\frac{1}{4} \times \frac{2}{3}$	- 4	х	3	 12

Try these:

$\frac{1}{3} \times \frac{2}{3} =$	$\frac{2}{8} \frac{7}{8} \times \frac{2}{8} =$
$\frac{3}{3} \frac{2}{3} \times \frac{2}{3} =$	$\frac{2}{5} \times \frac{3}{5} =$
$\frac{1}{5} \times \frac{4}{5} =$	$\frac{1}{5} \times \frac{1}{5} =$
$\frac{7}{4} \times \frac{1}{4} =$	$\frac{6}{8} \times \frac{6}{8} =$
$\frac{5}{6} \times \frac{3}{6} =$	$\frac{10}{8} \times \frac{5}{8} =$
$\frac{11}{4} \times \frac{3}{4} =$	$\frac{12}{8} \frac{7}{8} \times \frac{3}{8} =$
$\frac{13}{6} \times \frac{4}{6} =$	" $\frac{2}{3} \times \frac{1}{3} =$

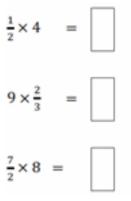


Example:

1	v	2		1	Х	2		2		reduces	1
4	~	3	-	4	X	3	1000	12	-	to	6

Multiplying fractions by whole numbers

*Hint:* Write the whole numbers like this: e.g.  $4 = \frac{4}{1}$ 



## Level 21 Card 9 Multiplying mixed numbers

Example:

$$1\frac{1}{2} \times 2\frac{1}{5} = 3\frac{3}{10}$$

$$\frac{3}{2} \times \frac{11}{5} = 3\frac{3}{10}$$
Do the multiplication as Improper Fractions

Try these:

1)  $3\frac{3}{5} \times 3\frac{1}{3} =$ 2)  $4\frac{1}{2} \times 4\frac{2}{3} =$ 3)  $3\frac{2}{3} \times 3\frac{4}{5} =$ 4)  $2\frac{2}{5} \times 4\frac{1}{5} =$ 5)  $4\frac{1}{2} \times 2\frac{3}{4} =$ 6)  $3\frac{1}{2} \times 2\frac{1}{4} =$ 7)  $4\frac{3}{5} \times 3\frac{1}{2} =$ 8)  $3\frac{1}{2} \times 4\frac{1}{3} =$ 9)  $2\frac{1}{2} \times 2\frac{2}{3} =$ 10)  $3\frac{1}{2} \times 4\frac{3}{4} =$ 

## Level 21 Card 10 Division of fractions

*Rule: flip the numerator and denominator of the second fraction and multiply, e.g.* 

-	$\frac{3}{4} \div \frac{3}{3}$	$\frac{2}{3} =$	$\frac{3}{4} \times$	$\frac{3}{2}$
Try these:	1)	2 5		Diria
	2)	$\frac{2}{4}$ ÷	$\frac{1}{2} =$	
	3)	4 5	$\frac{2}{3} =$	
	4)	2 5	$\frac{2}{3} =$	
	5)	$\frac{2}{4}$ ÷	<u>1</u> 5 =	
	6)	$\frac{3}{4}$ ÷	<u>4</u> 5 =	
	7)	$\frac{1}{2}$ ÷	<u>6</u> 10 =	
	8)	$\frac{1}{2}$ ÷	$\frac{2}{3} =$	
	9)	$\frac{2}{4}$ ÷	$\frac{3}{10} =$	
	10)	$\frac{2}{3}$ ÷	<u>1</u> 5 =	

#### **Fraction word problems**

1. Tim was selling 32 coconuts at a road side. Three eights of the coconuts were fresh bu (green coconuts juice) and the rest were matured coconuts. Half of the matured coconuts were big while the rest were small.

- a) How many coconuts were fresh bu?
- b) What fraction of the coconuts were matured coconuts?
- c) How many coconuts were matured and big?

2. Sara was selling 27 apples at the market. One third of the apples were green while the rest were red. Half of the red apples were sweet.

- a) How many apples were green?
- b) What fraction of the apples was red?
- c) How many apples were red?
- d) What fraction of the red apples was not sweet?
- e) How many apples were red and sweet?
- 3. Chan has 6 metres of shirt material. How many  $1\frac{1}{2}$  metre pieces can he cut from the material?
- 4. Priya had 10 metres of ribbon. She wanted to cut it into  $2\frac{1}{2}$  metre pieces. How many pieces of ribbon will she cut?

#### Level 21 Card 12

#### More word problems

- 1. Ben made a garden 10 metres long. Later he decided to cut it up into small plots of  $2\frac{1}{2}$  metres in length. How many plots can he make?
- 2. A stick is  $3\frac{1}{4}$  metres long and it needs to be cut equally into  $\frac{1}{4}$  metre pieces. How many pieces can be cut from the stick?
- 3. A hot water urn containing  $10\frac{1}{2}$  litres of tea need to be poured out into  $1\frac{1}{2}$  litre bottles. How many  $1\frac{1}{2}$  litre bottles can be filled from the tea urn?
- 4. Akuila was sent by his mum to buy  $2\frac{1}{2}$  kg of potatoes. When he returned, his mum noticed that the price tag says 2kg. How many more grams of potatoes does Akuila have to buy?

5. Sereana bought a big packet of chips with the weight of 750g. She ate some and gave the rest to her sister. Her sister weighs the packet and found out that it was 250g.

a) How much of the chips did Sereana eat? (answer in grams)

b) Did Sereana eat more chips or less than her sister?

6. Pete went to bed at 8.45 p.m. and woke up at 6.15 a.m. the next day. How long did he sleep?

7. The Pacific Transport bus left Suva at 9.15 a.m. and it reached Sigatoka at 11.30 a.m.

i) How long was the trip from Suva to Sigatoka?

ii) What should have been the actual arrival time if a 15-minute delay occurred due to mechanical problems?

## Level 21 Card 13 Word problems

Answer the questions below and calculate the average speed of the following events. **Average speed = distance ÷ time** 

1. The Inter-City bus leaves Suva at 10.00 a.m. and reaches Nadi at 1.00 p.m. covering a distance of 219 km.

i) How long did it take the bus to reach Nadi?

ii) Find the average speed of the bus.

2. The Taunovo Bus leaves Navua at 9.15 a.m. and reaches Suva after twenty-five minutes of travelling fifty-five kilometers.

i) How long is the journey?

ii) What is the average speed?

3. A rental car leaves Nadi town at 10.20 a.m. and reaches Sigatoka at 11.45 a.m. covering a distance of 75 kilometres.

i) How long is the drive?

ii) Find the average of the car.

4.If Fiji's fastest man, Banuve Tabakaucoro, ran 100 metres in 10 seconds, find his average speed in metres per seconds?

#### Level 21 Card 14 Test All times tables should be known

- **1.** Write in words: 154,209
- **2.** Set out and multiply: 62453 x 35 =
- **3.** In your head: 96 x 1000 =
- 4. Short division: 7 )755
- 5. Vertical division (long division):
- 6. Reduce these fractions to their lowest terms:

a) 
$$\frac{12}{16} = -$$
 b)  $\frac{21}{24} = -$ 

7. Multiply these fractions and reduce the answer to lowest terms:

a) 
$$\frac{4}{5} \times \frac{7}{8} = - = -$$
 b)  $\frac{2}{3} \times \frac{3}{4} = - = -$ 

- 8. Multiply these mixed numbers:
  - a)  $1\frac{3}{4} \times 2\frac{1}{2} =$  b)  $3\frac{3}{5} \times 3\frac{1}{3} =$
- 9. Division of fractions: a)  $\frac{4}{5} \div \frac{2}{3} = -x - = - = b) \frac{1}{2} \div \frac{1}{5} = -x - = - = - = b$
- 10. Twelve friends plan to order pizza for dinner. They guessed that everyone would eat  $\frac{1}{3}$  of a pizza. How many pizzas should they order?

## Revision Level (19 – 21) Card 1

#### Add these numbers mentally.

1	37 + 49 =	5	121 + 56 =
2	68 + 75 =	6	379 + 85 =
3	81 + 67 =	7	741 + 126 =
4	99 + 36 =	8	899 + 257 =

#### Subtract these numbers mentally.

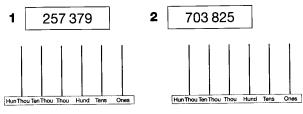
<b>9</b> 76 – 29 =	<b>12</b> 149 – 37 =
<b>10</b> 89 - 57 =	<b>13</b> 259 – 58 =
<b>11</b> 68 – 34 =	<b>14</b> 741 – 127 =

		number to the n approximate	e nearest 100 e answer.
	Question	Rounded to 100	Approximate answer
15	395 + 206	400 + 200	600
16	591 – 298		
17	513 + 387		
18	785 – 589		
19	372 + 329		
20	882 – 286		

**21.** Round 367,982 to the nearest 10.

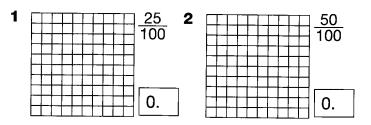
## Revision Level (19 – 21) Card 2

Draw beads on the abacuses to represent the numbers.



- **3** Write the number sixty-four thousand, nine hundred and twenty-eight.
- 4 What are the next two numbers after 52 817?
- 5 How many whole dollars in 19361 cents?
- 6 Round 46 985 to the nearest thousand.
- 7 Subtract 1000 from 158 695.
- 8 What number is ten thousand less than 262 340?
- **9** How many hundreds are in 34 972?
- **10** What number is one thousand more than 442 186?
- 11 What are the two numbers before 214 901?
- 12 What is the next odd number after 25 131?
- **13** What number is ten thousand less than 985 970?
- 14.What is 500 more than 839,182?

Revision Level (19 – 21) Card 3 Decimals



Write decimals for each fraction.

**3** 
$$\frac{1}{10} =$$
**5**  $\frac{1}{2} =$ 
**4**  $\frac{5}{10} =$ 
**6**  $\frac{20}{100} =$ 

Write fractions for each decimal.

- **7** 0.7 = **9** 0.35 =
- **8** 0.25 = **10** 0.07 =
- **11** Order these decimals and fractions from smallest to largest.

0.35	$\frac{38}{100}$ $\frac{7}{10}$ 0.09
0.00	100 10 0.09

## Add the decimals.

12	4.391 m	13	17.413 km
	2.062 m		2.567 km
+	<u>3.097 m</u>	+	1.093 km

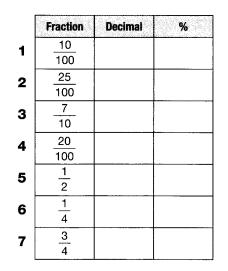
## Revision Level (19 – 21) Card 4 Factors

Answer true or false.

- 1 3 is a factor of 12.
- **2** 7 is a factor of 21.
- **3** 8 is a factor of 30.
- 4 4 is a factor of 20.
- **5** 4 is a factor of 25.
- **6** 6 is a factor of 36.
- **7** 9 is a factor of 81.
- 8 7 and 3 are both factors of 21.
- 9 9 and 4 are both factors of 36.
- 10 5 and 6 are both factors of 35.
- **11** 8 and 4 are both factors of 48.
- **12** 10 and 5 are both factors of 100.
- 13 3 and 9 are both factors of 36.
- 14 7 and 4 are both factors of 56.
- **15** Write a rule for 5 being a factor of a number.

Square numbers e.g. 7<sup>2</sup> (7 squared), = 7 x 7 = 49 8<sup>2</sup> = □ x □= □ 3<sup>2</sup>= 9<sup>2</sup>= 6<sup>2</sup>=

## Revision Level (19 – 21) Card 5 Fractions, decimals and percentages



	Order	from	small	est to largest.
8	<u>27</u> 100	30%	0.29	
9	35%	<u>53</u> 100	0.33	
10	99 100	9%	0.9	
11	0.54	<u>1</u> 2	49%	
12	4%	<u>3</u> 10	0.21	
13	9 100	90%	0.95	
14	70 100	7%	0.03	

15. What is 20% of 800?

Revision Level (19 – 21) Card 6 Division

1	2	3
3969	4 568	5 1 7 5

4	5	6
6 1 5 6	7 7 6 3	8 7 4 4

- 7 Share \$64 among 8
- 8 How many fives in 90?
- **9** 450 ÷ 10
- **10** What is the quotient when 357 is divided by 7?
- **11** Share 424 blocks between 4 groups.
- **12** Lisa's mum won \$924 in the lottery. If she shared it with another 6 people, how much did each person receive?
- **13** 540 spectators were seated in 10 rows. How many in each row?



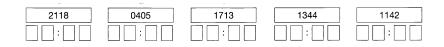
**14** A group of 217 boys was divided into 7 teams. How many in each team?

Cor	nplete the	decimal	addition	chart.
	+	7.431	5.323	2.249
17	0.05			
18	0.003			
19	0.5			
20	0.001			



Revision Level (19 – Card 7 Subtracting	-	Revision Level (19 Card 8 Subtraction
		1 85 0 0 0
<b>1</b> 0.6 – 0.3		- 63000
<b>2</b> 0.9 – 0.4		
<b>3</b> 0.89 - 0.74		<b>3</b> 75 4 2 5
<b>4</b> 0.77 – 0.53		- 43000
<b>5</b> 0.86 – 0.34		
<b>6</b> 0.99 – 0.55		<b>5</b> 836 98
/		- <u>31342</u>
<b>7</b> 8.74	8 7.43	
- <u>1.32</u>	- <u>1.31</u>	<b>7</b> 968 51
		- 54334
<b>9</b> 36.46	<b>10</b> 74.94	
- 13.51	- <u>11.38</u>	Supply the missin
		<b>9</b> 85 41
		- 53799
<b>11</b> 423.5	<b>12</b> 294.38	
- <u>116.3</u>	- <u>36.19</u>	<b>11</b> 9 1 6 1
		- 73429

# 24-hour clock. Write the digital and analogue form:



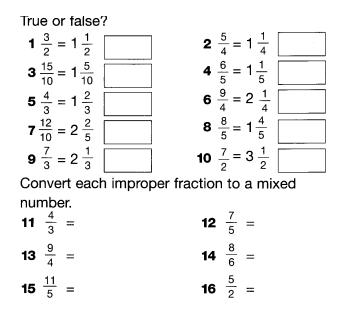
# 19 – 21) tion of whole numbers

1	85000	2	98000
_	63000	_	34000
3	75425	4	68960
-	43000	-	24000
5	836982	6	748536
-	3 1 3 4 2 1	-	203425
7	968516	8	858643
-	543344	_	654461

ing numbers.

9	85 🗌 41	<b>10</b> 7	6381
_	53799	- 🗌	1 9 5
	2142	3	5 0 8 6
11	9 🗌 1 6 1	<b>12</b> 6	7 5 6
_	73429	2	3 8 1 8
	2473	4 [	746

## Revision Level (19 – 21) Card 9 Improper fractions and mixed numbers



	ne two imprope al to each mixe	r fractions that are d number.
	Mixed number	Improper fraction
17	$2\frac{1}{2}$	
18	$1\frac{1}{4}$	
19	$1\frac{1}{3}$	
20	$2\frac{1}{6}$	

21 
$$\frac{1}{10} + \frac{17}{100} + \frac{9}{100} =$$
  
22  $\frac{3}{8} + \frac{7}{8} + \frac{5}{8} =$ 

## Revision Level (19 – 21) Card 10 Addition of fractions

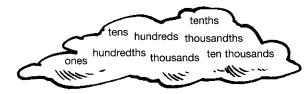
Add these fractions.  $\frac{3}{8} + \frac{2}{8} =$  $\frac{7}{10} + \frac{1}{10} =$  $\frac{3}{10} + \frac{3}{10} + \frac{3}{10} =$  $\frac{3}{8} + \frac{3}{8} + \frac{1}{8} =$  $\frac{7}{8} + \frac{5}{8} =$  =  $\frac{3}{4} + \frac{3}{4} =$  =  $\frac{7}{10} + \frac{7}{10} =$  =  $\frac{3}{5} + \frac{4}{5} =$  =  $\frac{5}{10} + \frac{5}{10} + \frac{5}{10} =$  =  $\frac{5}{12} + \frac{4}{12} + \frac{4}{12} =$  =

Subtract these fractions.

<b>11</b> $\frac{7}{10} - \frac{1}{10} =$	<b>16</b> $\frac{5}{10} - \frac{2}{10} =$
<b>12</b> $\frac{7}{8} - \frac{2}{8} =$	<b>17</b> $\frac{4}{8} - \frac{3}{8} =$
<b>13</b> $\frac{9}{10} - \frac{5}{10} =$	<b>18</b> $\frac{6}{10} - \frac{1}{10} =$
<b>14</b> $\frac{4}{5} - \frac{3}{5} =$	<b>19</b> $\frac{2}{5} - \frac{1}{5} =$
<b>15</b> $\frac{3}{4} - \frac{2}{4} =$	<b>20</b> $\frac{9}{10} - \frac{3}{10} =$

21. Complete the counting by quarters: 1, 1¼,..... 3

Revision Level (19 – 21) Card 11 Write the place value of each number in bold. Set 1



	Number	Place value
1	36 <b>7</b> .361	
2	3 <b>6</b> 5.973	
3	<b>7</b> 93.548	
4	357. <b>2</b> 42	
5	679.3 <b>8</b> 4	
6	<b>3</b> 574.261	
7	4729.3 <b>7</b> 5	
8	293.74 <b>2</b>	

Set 2

What is

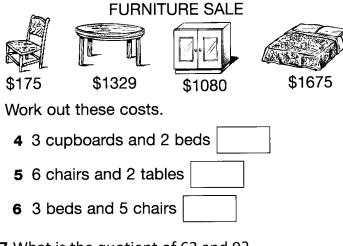
The cost?

- 3 kg at \$4 per kilogram
   5 kg at \$5 per kilogram
   6 kg at \$1.20 per kilogram
   8 kg at \$1.50 per kilogram
   12 kg at \$2.20 per kilogram
   1<sup>1</sup>/<sub>2</sub> kg at \$4 per kilogram
   2<sup>1</sup>/<sub>2</sub> kg at \$10 per kilogram
   3.5 kg at \$16 per kilogram
  - 9 5.5 kg at \$20 per kilogram

Revision Level (19 – 21) Card 12 Multiplication

#### Solve the problems.

- 1 How much money was raised if 1327 tickets were sold at \$9 each?
- **2** Jack earned \$1218 a week for 6 weeks. What was his total income?
- **3** The school buys 2150 boxes of pencils each year. If there are 8 pencils in each box, how many pencils does the school buy in 3 years?



7. What is the quotient of 63 and 9?





## Revision Level (19 – 21) Card 13 Addition and subtraction

1 43564	<b>2</b> 76805
57277	75957
+ 49802	+ 21965
<b>3</b> 75384	<b>4</b> 76854
- 24275	- <u>46928</u>
<b>5</b> \$75862	<b>6</b> \$94386
- <u>29427</u>	- <u>38279</u>



7 Mrs Collin's new job pays a salary of \$78565 as well as a car allowance of \$12999. What is the value of her yearly wage?



8 When Mr O'Neill prepared his tax return he calculated that during the year he earned \$67 324 but he would have to pay tax of \$28 949. How much did he earn after tax?

9.What is the average of 270, 360 and 540?
10.What is the average of 4.5, 6.3, 7.2 and 6?
11.How many days from August 16<sup>th</sup> to September 17<sup>th</sup>?

## Revision Level (19 – 21) Card 14 Division

- **1** I paid \$5250 for 5 televisions. How much were they each?
- **2** A car travelled 1835 km in 5 days. What was the average distance travelled each day?
- **3** 6930 bags were packed into 10 boxes. How many bags in each box?
- 4 John had a bag of 981 stamps to share between himself and 2 friends. How many stamps did each person receive?
- 5 Melissa earned \$2352 over4 weeks. What was her average weekly earnings?
- 6 1000 mL of perfume was poured into 8 mL sample bottles. If each bottle was sold for \$5, what was their total value?

7.One fifth of 60.
8.Divide 88 by 11.
9.One quarter of a dozen = 10.⅔ of 60 =

### Revision Level (19 – 21) Card 15 Prime numbers

A prime number is a number that has only one set of factors, e.g. 7 x 1 = 7

A composite number is a number that has more than one set of factors.

Write these numbers, and write P for prime, or C for composite after each number.

- **1** 12 \_\_\_\_\_\_ **2** 7 \_\_\_\_\_
- **3** 16 \_\_\_\_\_\_ **4** 21 \_\_\_\_\_
- **5** 45 \_\_\_\_\_
- **6** 49
- 7 92
- 8 95 \_\_\_\_\_
- 9 75
- **10** 50 \_\_\_\_\_
- **11** 17 \_\_\_\_\_
- **12** 57 \_\_\_\_\_

Write all the factors of these composite numbers

13 18		
14 21		
15 32		
16 56		

Revision Level (19 – 21) Card 16 Addition and subtraction of fractions

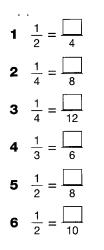
**1** 
$$\frac{3}{4} - \frac{1}{4} =$$
  
**2**  $\frac{6}{10} - \frac{1}{10} =$   
**3**  $\frac{9}{10} - \frac{3}{10} =$   
**4**  $\frac{7}{8} - \frac{5}{8} =$   
**5**  $\frac{7}{8} - \frac{4}{8} =$ 

Record these answers as improper fractions and as mixed numerals.

6	<u>8</u> 10	+	<u>5</u> 10	=			:	=
7	<u>4</u> 5	+	<u>3</u> 5	=			:	=
8	<u>7</u> 10	+	<u>4</u> 10	=			:	=
9	<u>8</u> 10	+	<u>9</u> 10	=			:	=
10	$\frac{2}{4}$	+	$\frac{3}{4}$	=			:	=
11	$\frac{3}{4}$	+	<u>3</u> 4	+	<u>1</u> 4	=	:	=
12	<u>7</u> 10	+	<u>6</u> 10	+	<u>5</u> 10	=	:	=
13	<u>3</u> 5	+	$\frac{4}{5}$	+	<u>4</u> 5	=	:	=
14	<u>3</u> 10	+	<u>9</u> 10	+	<u>9</u> 10	=	:	=
15	<u>5</u> 8	+	7 8	+	<u>5</u> 8	=	:	=
16	. A	dd	si	x t	en	th	s to 1.	25.
17	. A	dd	th	ire	e t	ter	nths to	6.05.

## Revision Level (19 – 21) Card 17 Fractions

Write equivalent fractions for these:



Find the fraction of each quantity.

<b>7</b> $\frac{1}{3}$ of 90 =	<b>14</b> $\frac{1}{5}$ of 400 =
<b>8</b> $\frac{1}{5}$ of 100 =	<b>15</b> $\frac{1}{8}$ of 400 =
<b>9</b> $\frac{1}{4}$ of 120 =	<b>16</b> $\frac{1}{5}$ of 800 =
<b>10</b> $\frac{1}{5}$ of 200 =	<b>17</b> $\frac{1}{8}$ of 640 =
<b>11</b> $\frac{1}{5}$ of 300 =	<b>18</b> $\frac{1}{10}$ of 6000 =
<b>12</b> $\frac{1}{4}$ of 240 =	<b>19</b> $\frac{1}{20}$ of 1000 =
<b>13</b> $\frac{1}{8}$ of 240 =	<b>20</b> $\frac{1}{100}$ of 2000 =

**21** Continue counting:

$3\frac{1}{2}$	$4\frac{1}{2}$	$5\frac{1}{2}$		
$7\frac{1}{4}$	$7\frac{1}{2}$	$7\frac{3}{4}$		
$8\frac{1}{3}$	8	$7\frac{2}{3}$		
$6\frac{1}{4}$	$6\frac{3}{4}$	$7\frac{1}{4}$		
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## Revision Level (19 – 21) Card 18 Division with remainders

<b>1</b> 3 6 1 2 9	<b>4</b> 4 2 6 3 2
<b>2</b> 5 1 8 4 5	<b>5</b> 62322
3	6
7 7 8 6 1	10 6 5 1 0
Record the remaind	ers as fractions.
_	
7	10
5 6 8 8 3	<b>10</b> 6 7 3 9 4
5 6 8 8 3	6 7 3 9 4
-	
5 6 8 8 3 8 4 7 3 0 2	6 7 3 9 4 11 8 6 6 0 3
5 6 8 8 3 8	6 7 3 9 4 11

- **13** A box of 1456 lollies was sorted into 4 piles. How many in each pile?
- **14** 725 Christmas lights were put into 5 packets. How many lights were in each packet?

15 What fraction of 300 is 25?

Revision Level (19 – 21) Card 19 Multiplication

1	1	3	4	2 4	2	2 ×	2	2	4	5 3		3 	<	4	1	7	3 5	
4	2	3	4	1 6	ł	5 ×	1	0	5	4		6 	<	5	1	8	3 7	
7	3	7	1	8 4	ł	в ×_	6	0	4	9 5		9	×	2	2	4	4 9	
10	A co for t If ea wha \$	the ach	eir n la	exe apte	ecu op	tive cos	e st st \$	aff 53	29	-	S	-			:	Æ	D	
11	795 Chri Wha if th	istr at v	ma wa	as a Is tl	ind ne 1	12 tota	62 al s	at ale	Ea es '	val	ue					¢	Ð	

\$	

**12.**What change would I get from \$10 if I bought 3 bracelets at \$2.75 each

## Revision Level (19 – 21) Card 20 Extended multiplication

<b>1</b> 25	<b>2</b> 3 1	<b>3</b> 28
× 16	× 15	× 45
<b>4</b> 76	<b>5</b> 80	<b>6</b> 75
× 48	× 26	× 33
<b>7</b> 382	<b>8</b> 251	<b>9</b> 462
× 27	× 72	× 54
<b>10</b> 4 7 4	<b>11</b> 586	<b>12</b> 648
× 43	× 29	× 62
		<u></u>

**13** \$2.95 x 18 =

**14** 50c x 55 =

## Revision Level (19 – 21) Card 21 Multiplying decimals and money

<b>1</b> 1 3.2	<b>2</b> 2 2.4	<b>3</b> 2 0.7
<u>× 4</u>	× 5	<u>× 6</u>
<b>4</b> 1 4.3 2	<b>5</b> \$1 0.0 8	<b>6</b> \$2 5.8 6
× 5	× 7	× 8
<del></del>		
<b>7</b> 2 1 3.7	<b>8</b> 2 2 4.0 7	<b>9</b> \$ 2 4 3.8 2
<u>× 3</u>	× 6	× 5

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**10** Five girls need 1.75 m of material each to make a costume for play night. How much material will they need altogether?

\_\_\_\_ m

11 A farmer has a large property which measures 7 km by 8.08 km. What is its area?

**12** \$2.95 x 18 = **13** 50c x 55 = **14** How much is 8.75 kg at \$16 a kg?

Revision Level (19 – 21)	
Card 21 Test	Score: /12
1. What is the value of the 2 in 357. <b>2</b> 31?	
2. 43564	
57277	
+ 49802	
3. 75384	
- 24275	
4. Write the fractions for these decimals:	(2 marks)
a) 0.07 b) 0.35	
5. 62322	
6. What is 20% of 600?	
7. 1342	
<u>X4</u>	
8. $\frac{3}{4} - \frac{1}{4} =$	
$\frac{1}{4} - \frac{1}{4} =$	
9. 26	
<u>X 16</u>	
10. Add the fractions and write the answer a	as as a mixed
number: $\frac{3}{5} + \frac{4}{5} + \frac{4}{5} =$	=
11. Write the prime numbers between 1 and	d 20.