

## 1.7 Solve the Problems

### Self-practice 1.0 (code : Y6U1-1.7)

1. The following are eight number cards.

97	83	47	36	73	79	90	96
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Mary is asked to find the difference between the largest composite number and the smallest prime number.

- a) What is her answer?
  - b) State whether her answer is a prime number or a composite number.
2. A manufacturer of COVID-19 vaccine distributes  $4\frac{7}{10}$  million doses of vaccine to Country X. Country Y receives 1.06 million doses lesser than Country X. What is the total number of doses of vaccine distributed by the manufacturer?
3. ABZ Printing Company prints 0.063 million books. All the books are packed equally into 90 boxes. The company delivers 4 boxes to Alma Book Store. How many books are delivered to Alma Book Store?
4. Karim Electronic Company sends  $2\frac{7}{10}$  million earphones to wholesaler A and 6 boxes of earphones to wholesaler B. Each box has 0.009 million earphones. How many earphones are sent to wholesalers A and B in total?
5. The table shows the number of blue pens and black pens in boxes M and N.

Box	M	N
Pen	Blue	Black
Number of pens	$\frac{2}{5}$ million	0.04 million

A multinational company donated a box of M and 8 boxes of N to several schools in Johor in conjunction with World Children's Day. Calculate the difference in the number of blue pens and black pens donated by the company.

6. Factory Q produces 0.05 million containers of *baulu* cakes. The cakes are distributed equally to supermarket T and 9 other supermarkets. Supermarket T sold 2 900 containers of the cakes. What is the number of containers of unsold cakes in supermarket T?
7. In conjunction with the holy month of Ramadan, the number of boxes of honey dates A and honey dates B marketed weekly are as follows:



Honey dates A

0.45 million boxes



Honey dates B

$\frac{1}{2}$  million boxes

What is the total number of boxes of honey dates A and honey dates B marketed in 4 weeks?

8. An oil company produces  $1\frac{3}{8}$  million gallons of petrol. 0.017 million gallons are stored and the rest are distributed equally to 97 petrol stations. Does each station receive 0.014 million gallons? Prove it.
9. A battery factory produces 4.082 million batteries of AA size. The factory produces size C batteries which are  $1\frac{4}{5}$  million lesser than the number of AA size, and 860 000 batteries of size D. What is the total number of size C and D batteries produced?
10. A library has  $1\frac{1}{4}$  million books. Damaged books are kept in 3 boxes. Each box has 0.003 million books. How many books are in good condition?
11. 5 printing machines are used to print  $3\frac{7}{8}$  million pamphlets. Each machine can print equal numbers of pamphlets. How many pamphlets can be printed by 7 printing machines of the same type?
12. A factory produced  $\frac{2}{5}$  million table tennis balls. 0.04 million balls are separated for orders while the remaining balls are distributed equally to 100 sports stores. Is the number of table tennis balls distributed to the stores less than 4 000 balls? Prove it.

13. In conjunction with the festive season, Maria Cake Shop received orders for peanut and strawberry biscuits. The table shows the number of orders received by each supermarket.

Biscuit	Peanut	Strawberry
Number of jars	0.06 million	0.125 million

What is the total number of jars of peanut biscuits and strawberry biscuits ordered by 15 supermarkets?

14. The table shows the number of hand gloves produced by two factories in half year.

Factory	Number of hand gloves
X	0.15 million pairs
Y	7 times that of factory X

Factory Y produces the same number of hand gloves every month. Calculate the number of hand gloves produced by factory Y in 5 months.

15. The diagram shows the number of flyers about 'Dengue Prevention' printed by a company to be distributed to several zones. The number of flyers for Southern Zone is not shown.



The Southern Zone receives 0.86 million copies less than the total number of flyers of Northern Zone and Central Zone. Calculate the number of flyers distributed to the Southern Zone.

16. A factory produces 0.17 million white buttons and  $\frac{1}{10}$  million black buttons in the month of June. The factory produces the same number of buttons every day. Calculate the number of buttons produced by the factory in a day.

17. The table shows the number of beads in a blue box and a red box. The number of beads in a yellow box is not shown.

Box	Number of beads
Blue	1 608 710
Red	$\frac{3}{4}$ million less than the blue box
Yellow	?

The total number of beads in the red box and yellow box is 1.372 million.  
Calculate the number of beads in the yellow box.

18. A company printed 2.2 million magazines in a year. 849 701 of the magazines are sold. How many magazines have not been sold?
19. A factory produces  $\frac{5}{8}$  million bottles of soya sauce. After selling some of the bottles of soya sauce, there are 5 416 bottles left.
- The bottles of soya sauce sold are packed in boxes, with 24 bottles in a box. How many boxes of soya sauce were sold?
  - John's sundry shop orders 200 boxes of soya sauce from the factory, each box containing 24 bottles of soya sauce. Prove that the remaining stock is sufficient to supply to John's sundry shop.
20. A factory exported 4.09 million units of electronic components to country P. Country Q received million units of electronic components less than country P. Calculate the total number of units of electronic components exported to the two countries.
21. 4 machines produce  $2\frac{3}{10}$  millions of paper clips. Each machine produces the same number of paper clips. Calculate the number of paper clips produced by 9 identical machines.
22. A factory produces 0.936 million of bottles of mineral water every day. All the bottles of mineral water are put into x cartons. If each carton can be filled with 24 bottles of mineral water, calculate the value of x.
23. A factory transported  $1\frac{4}{5}$  millions of spark plugs to wholesaler A and 9 boxes filled with spark plugs to wholesaler B. Each box contains 0.012 million of spark plugs. Calculate the total number of spark plugs transported to wholesaler A and B.

**24.** Company has 1.2 million of school bags for sales. Table below shows the number of school bags sold in the two months.

Month	Number of school bags sold
January	476 050
February	519 950

Calculate the number of remaining school bags.

**25.** A factory produces 0.924 million table fans in a year. The number of table fans produced every month is the same. Calculate the total number of table fans produced in 7 months.

**26.** Given  $m \div 9 = 0.18$  million, calculate the value of  $m$ .

**27.** A factory produced 2.76 million wristwatches last year. This year, the factory plans to produce three times that number of wristwatches. How many wristwatches must the factory produce each month? Give your answer as a whole number.

**28.** The table below shows the number of pillows stored in three warehouses.

Warehouse	Number of pillows
P	2.5 million
Q	Less 275 850 pillows than Warehouse P.
R	More $1\frac{2}{5}$ million pillows than Warehouse P.

- Calculate the number of pillows in Warehouse Q.
- How many pillows are there in Warehouse R? Give your answers in decimal of a million.

- 29.** A total of  $\frac{1}{4}$  million visitors visit Wahyu Botanical Garden each month. Calculate the number of visitors who visit Wahyu Botanical Garden in 1 year 3 months. Give your answer in decimal of a million.
- 30.** The total number of spectators at a football match over three days was 0.744 million people. The number of spectators on the fourth day was 25,675 more than the average number of spectators over the previous three days. How many spectators were there on the fourth day? Give your answer in a whole number.

1	<b>a) 49 b) Composite number</b>	21	<b>5.175 million</b>
2	<b>8.34 million</b>	22	<b>39 000</b>
3	<b>2 800 books</b>	23	<b>1 908 000</b>
4	<b>2.754 million</b>	24	<b>204 000</b>
5	<b>0.08 million</b>	25	<b>0.539 million</b>
6	<b>2 100</b>	26	<b>1.62 million</b>
7	<b>Statement is true, <math>1.358 \text{ mil} \div 97 = 0.014 \text{ mil gallons}</math></b>	27	<b>690 000</b>
8	<b>3.8 million</b>	28	<b>a) 2 224 150 b) 3.9 million</b>
9	<b>3.142 million</b>	29	<b>3.75 million</b>
10	<b>1.241 million</b>	30	<b>273 675</b>
11	<b>5.425 million</b>		
12	<b>3 600</b>		
13	<b>2.775 million</b>		
14	<b>875 000</b>		
15	<b>1 170 000</b>		
16	<b>9000 buttons</b>		
17	<b>513 290</b>		
18	<b>1 350 299</b>		
19	<b>a) 25 816 b) 225 boxes left. Enough.</b>		
20	<b>6.98 million</b>		