

2023 PSLE MATHEMATICS

*GENERAL INFORMATION
& STRATEGIES*

Examination Format

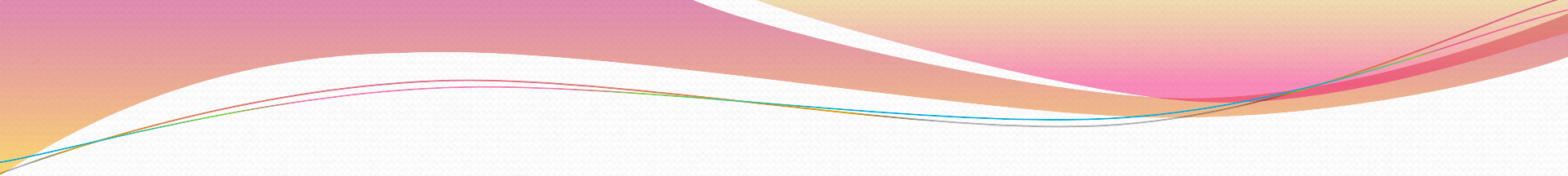
Paper	Booklet	Item Type	No. of Qns	No. of marks per qn	Weighting	Duration
1	A	MCQ	10	1	10%	1 h No Calculator
			5	2	10%	
	B	Short-answer	5	1	5%	
			10	2	20%	
2	1 Booklet	Short-answer	5	2	10%	1 h 30 min With Calculator
		Structured Long-answer	12	3,4 or 5	45%	
Total			47		100%	2 h 30 min

How are we preparing the kids?

- Conduct time component testing
- Revision - Sets of practice papers
- Past PSLE papers

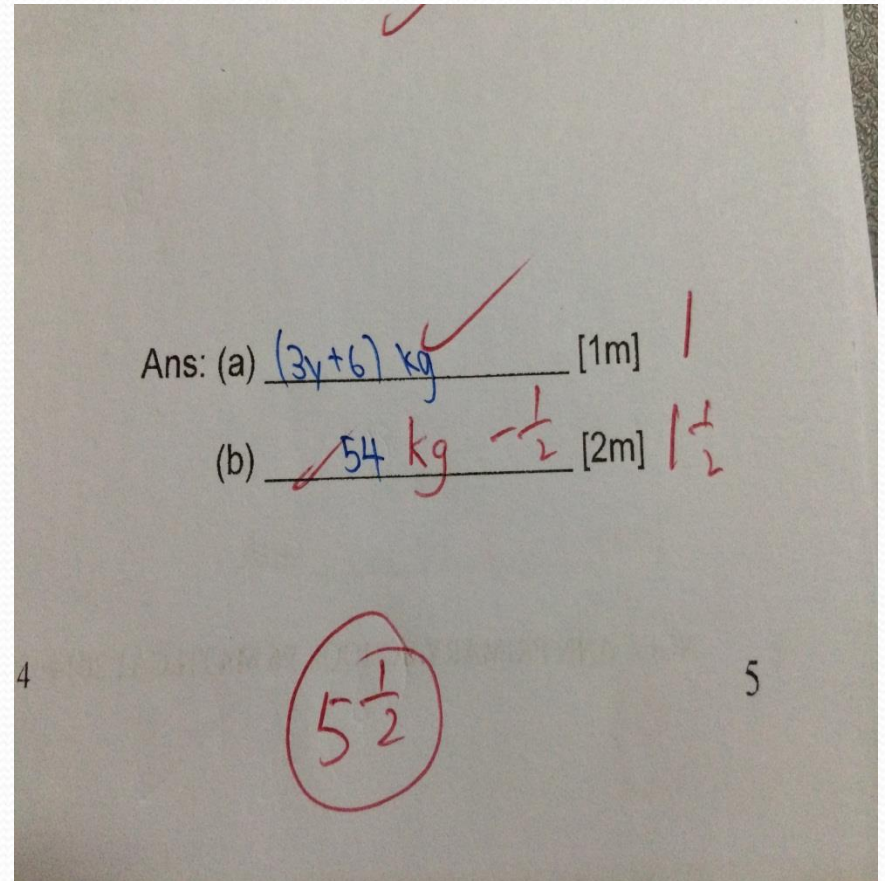
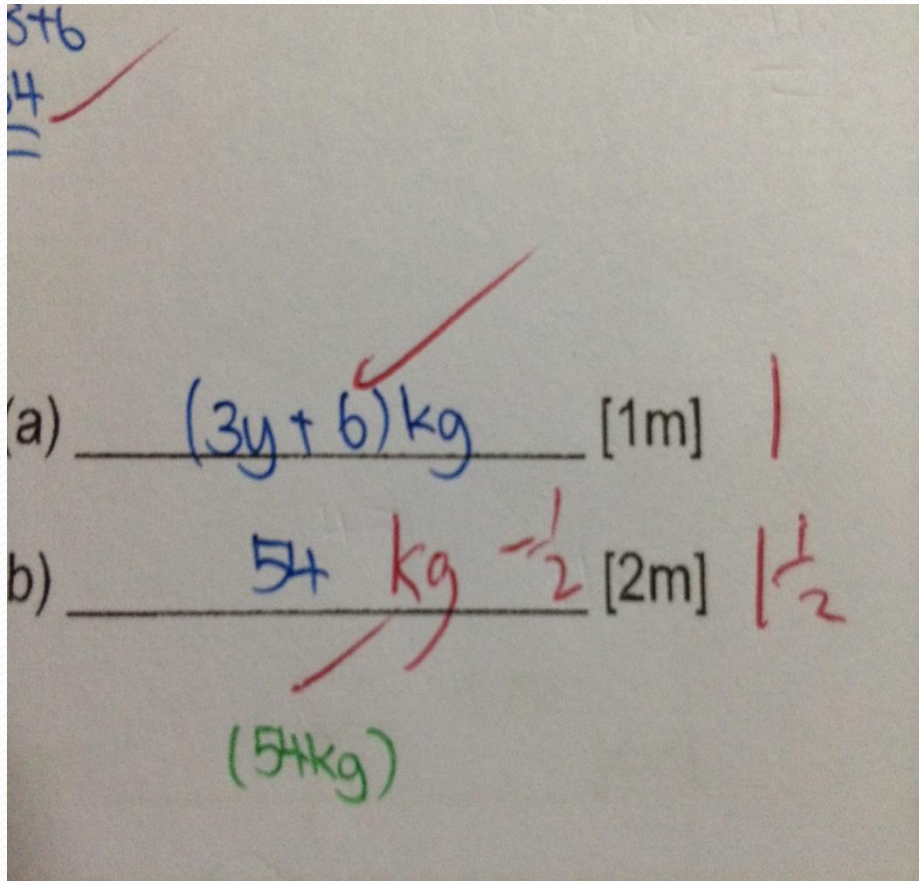
What your child can do to prepare for PSLE?

- Basic skills and concepts needs to be strong.
- Speed and accuracy for Paper 1 is important.
- Ensure he/she knows the various heuristics strategies and able to apply it to the various word problems.



Sharing of common errors and good practices

Omission of Units



Transferred Error (T.E)

- When answer written on Answer Blank is different from answer in working
- Clear evidence must be presented.
- Student transferred the final answer to the blank wrongly.

T.E. – Not awarded

1 mark question is marked strictly based what is shown on the answer blank. (Can't afford to be careless)

25. Given that AEC is a straight line, find $\angle d$.

Handwritten work:

$\angle BCE = 180^\circ - 155^\circ = 25^\circ$
 $\angle AEB = 81^\circ + 25^\circ = 106^\circ$
 $\angle d = (180^\circ - 106^\circ) \div 2 = 37^\circ$

Do your working properly!!!
You confused yourself!

* Cannot award mark as "Transfer Error" as final answer not stated clearly.
Angle not labelled.

37
180
- 106

74

71
180
- 155

25

How did you see wrongly???

Ans: ~~34~~ 35

26. The table shows the parking

Different Ans

T.E. – Not awarded

The pupil did not show clearly that it is a transferred error.

No clear indication of final answer

Mass of Carl's parcel is 6 kg more than that of Andy's and ...

Express the mass of Carl's parcel in terms of y .
 $y = 8$, find the total mass of the three parcels.

B	y kg		} $3y$ kg
A	y kg	y kg	
C	$(3y + 6)$ kg		} $(6y + 6)$ kg

6×8
 $= 48 + 6$
 $= 54$ kg

transfer error

Ans: (a) ~~$(3y + 9)$ kg~~ [1m]
(b) 54 kg [2m]

Did not transfer answer to blank but (Ans)
clearly written in working
(Full marks awarded because there is a clear
evidence of transferred error)

38. Keith bought 2 notebooks and 3 highlighters.
With the same amount of money, he could also buy 7 notebooks.
Each notebook cost \$0.90. How much did each highlighter cost?

$$\$0.90 \times 7 = \$6.30$$

$$\$0.90 \times 2 = \$1.80$$

$$\$6.30 - \$1.80 = \$4.50$$

$$\$4.50 \div 3 = \underline{\$1.50 \text{ (Ans)}}$$

Good practice

Answer: _____

3
(3m)

②

Misread

- Numbers taken from the question are read wrongly.
- If working is clear, other Method Marks will be awarded accordingly.

Misread

y, Daniel and Kenny shared \$6048 altogether. After Harry gave some money to Daniel, Daniel had 6 times as much money as before. Daniel then gave some money to Kenny and Kenny's money became 3 times as much as before. In the end, all of them had the same amount of money. How much money did Harry have at first?

misread!!!

6408

Some Marks are still awarded if the method and workings are clearly shown.

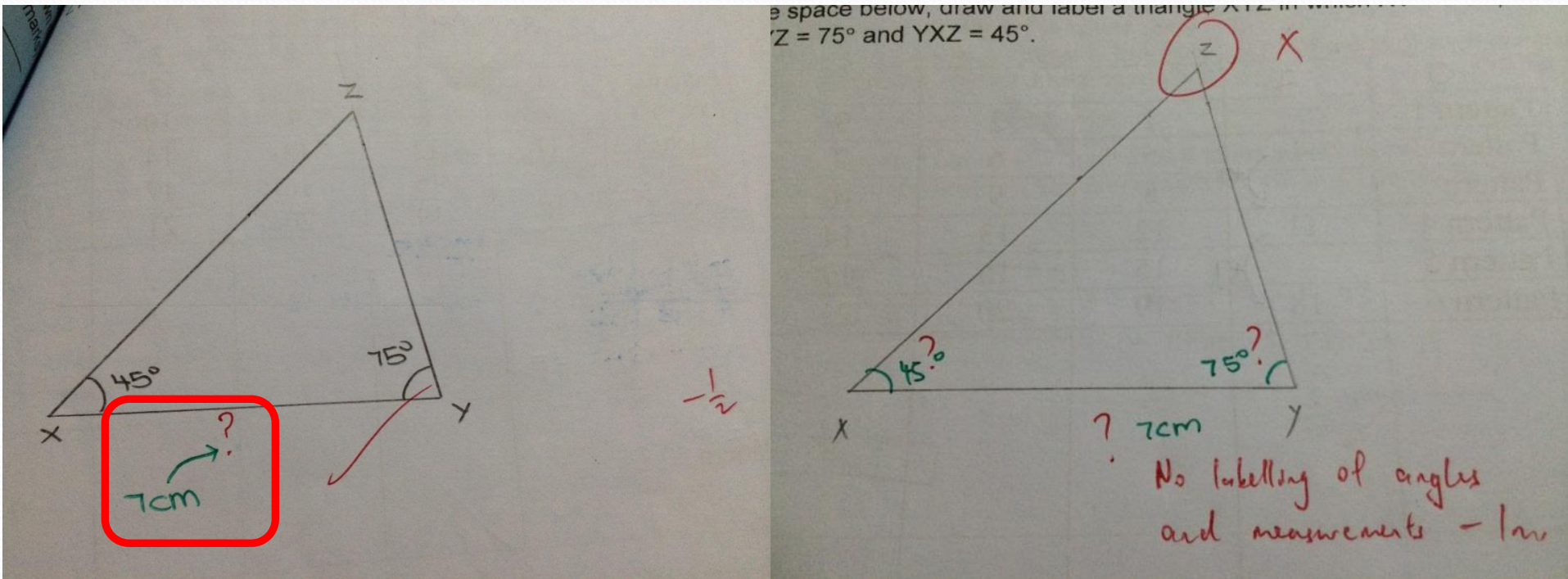
$$3u \Rightarrow 6408$$

$$1u \Rightarrow 6408 \div 3$$

M1 - 1

Error carried forward

Labels missing in the drawing of diagram



Using blunt pencil to draw diagram
Untidy work (Inaccurate drawing)
No erasers

Common Errors (Question Types)

Order of Operations

- Too reliant on the word BODMAS and carry out the operations following strictly to the order of the letter.
- Correct steps should be:-
 - ❖ When there are brackets, carry out the operations in the brackets first.
 - ❖ Working from left to right, carry out multiplication and division before addition and subtraction.

Ans: 7000

late $24 + 70 \div 7 \times (10 - 5)$.

$= 24 + 70 \div 7 \times 5$

$= 24 + 70 \div 35$

$= 24 + 2$

$= 26$

$= 24 + 70 \div 7 \times 5$

$= 24 + 10 \times 5$

$= 24 + 50$

$= 74$

Ans: 26

why do this first when you put (2) on top of divide?

Order of Operations

Good Workings

17. Evaluate $24 + 70 \div 7 \times (10 - 5)$.

$$\begin{aligned} & 24 + 70 \div 7 \times (10 - 5) \\ &= 24 + 70 \div 7 \times 5 \\ &= 24 + 10 \times 5 \\ &= 24 + 50 \\ &= 74 \end{aligned}$$

Evaluate $24 + 70 \div 7 \times (10 - 5)$.

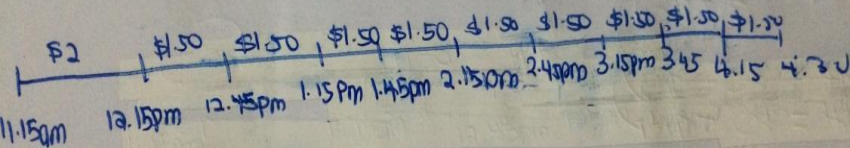
$$\begin{aligned} & 24 + 70 \div 7 \times (10 - 5) \\ &= 24 + 70 \div 7 \times 5 \\ &= 24 + 10 \times 5 \\ &= 24 + 50 \\ &= 74 \end{aligned}$$

Good Practices

Clearly Labelled Timeline

Parking Rates	
1 st hour	\$2
Every additional $\frac{1}{2}$ hour or part thereof	\$1.50

Mr Wong parked his car at the car park from 11.15 a.m. to 4.30 p.m..
How much did he pay for the parking fee?



$$\$1.50 \times 10 = \$15$$

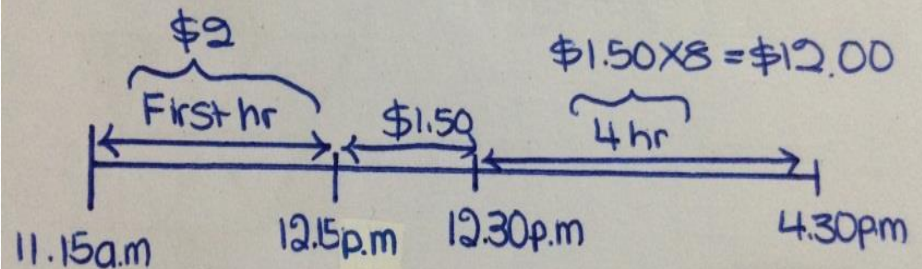
$$\$15 - \$1.50 = \$13.50$$

$$\$13.50 + \$2.00 = \$15.50$$

Ans: \$ 15.50

Every additional $\frac{1}{2}$ hour or part thereof	\$1.50
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Mr Wong parked his car at the car park from 11.15 a.m. to 4.30 p.m..
How much did he pay for the parking fee?



$$\$12 + \$1.50 + \$2 = \underline{\underline{\$15.50}}$$

Good Practices

Using 2 Methods (1 for check)

In the end

H	6	6	6
D	6	6	6
K	6	6	6

Then

H	6	6	6		
D	6	6	6	6	6
K	6				

At first

H	6	6	6	6	6	6	6	11
D	5							
K	6							

Checking

H	D	K	T
1	1	1	3
3	3	3	9
5	5	1	9
18	30	6	54
43	5	6	54

$54u \Rightarrow \$6048$
 $1u \Rightarrow \$6048 \div 54 = \112
 $43u \Rightarrow \$112 \times 43 = \4816

$54u \Rightarrow \$6048$
 $1u \Rightarrow \$6048 \div 54 = \112
 $43u \Rightarrow \$112 \times 43 = \4816

Persie gets \$16 more pocket money than Rooney each month.

month, each of them spends \$240 on food and saves the rest.

Persie saves \$248, Rooney saves \$120.

How much pocket money does Rooney get each month?

P	\$240 x months	\$248
R	\$240 x months	\$120

$Diff \Rightarrow \$248 - \$120 = \$128$
 $\$128 \div \$16 = 8$ months
 8 months $\Rightarrow \$120$
 11 $\Rightarrow \$120 \div 8 = \15
 $\$15 + \$240 = \$255$

Checking

$(8 \text{ months}) P \Rightarrow \248
 $(11 \text{ months}) R \Rightarrow \$240 \times 8 = \$1920$
 $\$1920 + \$240 = \$2160$
 $\$2160 - \$255 = \$1935$

4

Good Practices

Clear Explanations/Workings

	C:E	T
B	5:7	12
A	4:9	13

$$12u \rightarrow 1608$$

$$1u \rightarrow 134$$

$$\text{Chi books before} \rightarrow 134 \times 5 = 670$$

$$\text{Chi books now} \rightarrow 670 - 166 = \underline{504}$$

$$\text{(Now) } 4u \rightarrow 504$$

$$\text{(Now) } 1u \rightarrow 126$$

$$\text{(Now) Eng} \rightarrow 126 \times 9 = 1134$$

$$\text{Before Eng} \rightarrow 134 \times 7 = 938$$

$$\text{Ordered} \rightarrow 1134 - 938 = \underline{\underline{196}}$$

$$6048 \div 3 = 2016 \text{ (amount all 3 boys had after)}$$

$$2016 \rightarrow 3 \text{ times of Kenny's amount before)}$$

$$2016 \div 3 = 672 \text{ (Kenny at first)}$$

$$2016 - 672 = 1344 \text{ (What Daniel gave to Kenny)}$$

$$2016 + 1344 = 3360 \text{ (6 times of Daniel's amount before)}$$

$$3360 \div 6 = 560 \text{ (Daniel at first)}$$

$$3360 - 560 = 2800 \text{ (What Harry gave to Daniel)}$$

$$2016 + 2800 = 4816 \text{ (Harry at first)}$$

Good! Very clear explanation!



Missing Essential Workings

Steve and Paul had some marbles each.

If Steve gave Paul 28 marbles, they would have the same amount of marbles. If Paul gave Steve 35 marbles,

Paul would have $\frac{1}{3}$ of what Steve had.

How many marbles must Paul give Steve so that he would have half as many marbles as Steve?

$$\begin{aligned} 2u &= 35 + 28 + 28 + 35 \\ &= 126 \end{aligned}$$

$$1u = 63$$

$$63 + 35 + 28 + 28 = 154 \text{ (S)}$$

$$63 + 35 = 98 \text{ (P)}$$

$$154 - 98 = 56$$

$$56 \div 4 = 14 \text{ (Ans)}$$

S		35	28	28
P		35		



Why divide by 4?

Need to show the steps.

43.

A delivery company collects \$15 for each hamper delivered on time and \$4 less for each hamper delivered late. In February, the company collected \$14 204. For every 5 Hampers delivered, 3 were delivered on time and 2 were delivered late. How much more money could the company have collected if all the Hampers were delivered on time in February?

Error: Did not show clear workings

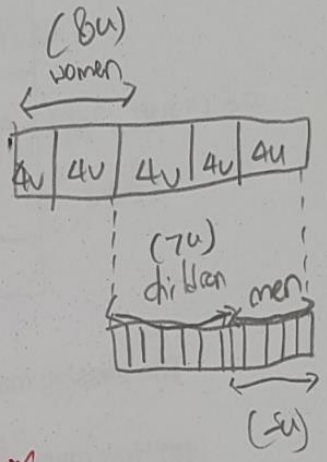
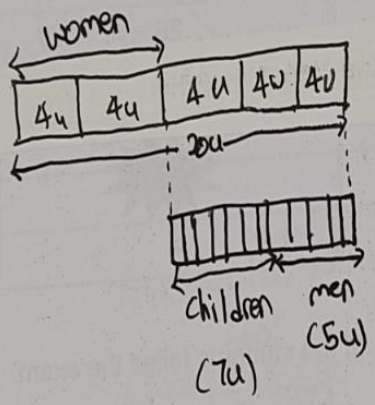
- \$15 x 3 = \$45
- \$11 x 2 = \$22
- \$45 + \$22 = \$67
- \$14 204 ÷ \$67 = 212 (sets)
- 2 x \$4 = \$8
- 212 x \$8
- = \$1696

15 x 5 = 75

~~15 x 5~~
75 - 8 = ~~67~~

did not show how you get this.

37. $\frac{2}{5}$ of the people in the Science Centre are women, $\frac{7}{12}$ of the remainder are children and the rest are men. If there are 240 more women than men, how many people are there in the Science Centre?



$8u - 5u = 4u$

$4u = 240$

$1u = 60$

$20u = 1200$ (Ans)

calculation error

-1

Example: Clear workings

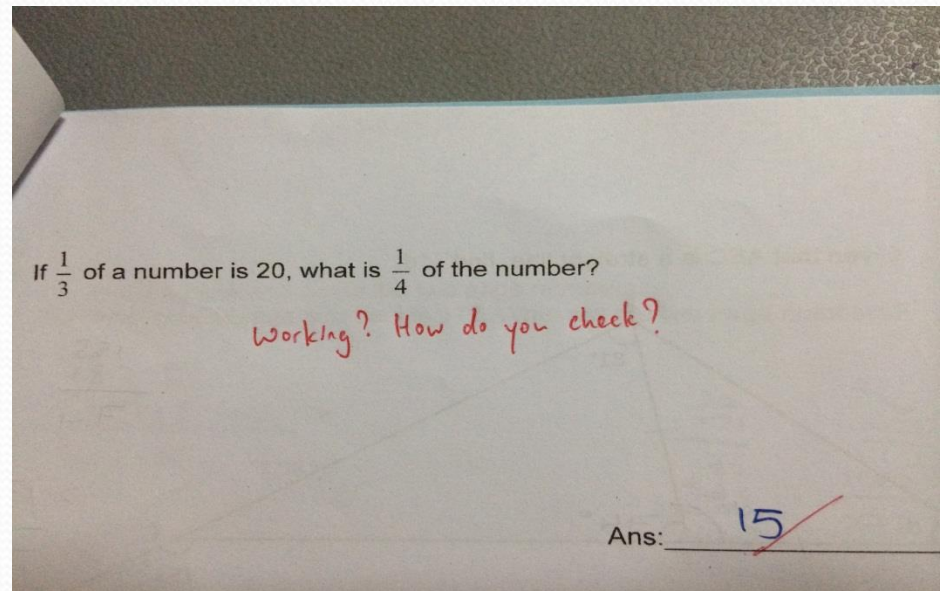
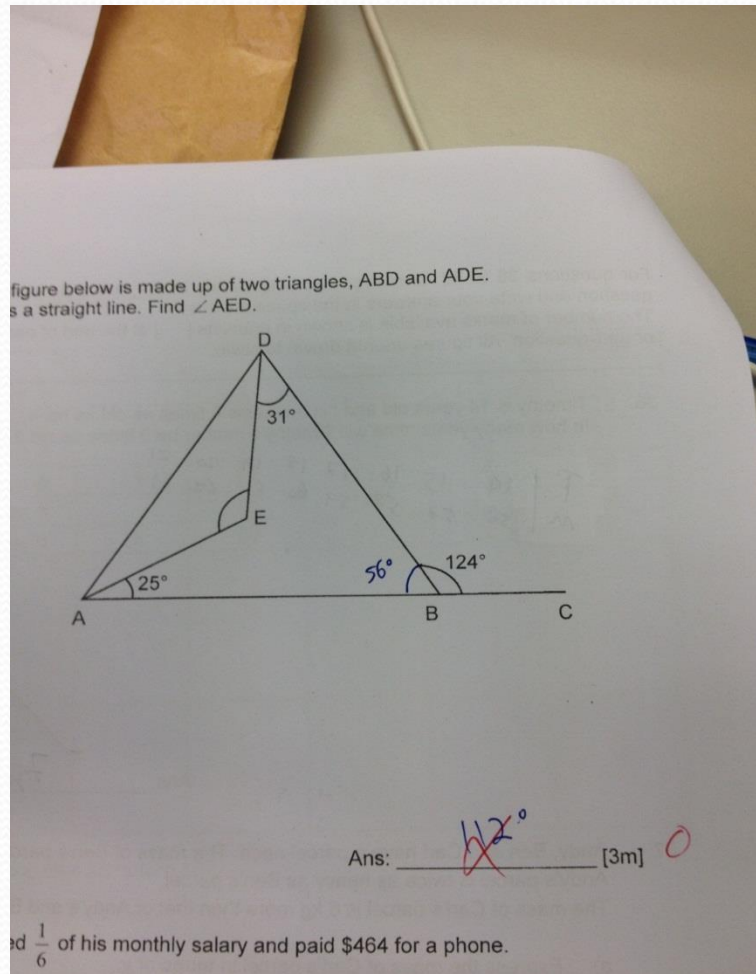
Method marks awarded although the answer is wrong

Ans: 1200 [3m]

2

No Workings (Difficult to check)

- No working done or models drawn. All calculations are done mentally.
- Clear indication that checking is not done. (When student returns to check on this question, there are nothing for him/her to check)



Helping your child in this
journey...

Check your child's daily homework
and ensure that these errors are
not made in their work

Helping your child in this journey...

- Your child must NOT be over-dependent on the use of the calculator.
- Pupils need to be fast and accurate in solving Paper 1 questions. (Duration of Paper 1 is 1h.)
- Mental Sums Practices & Strategies are important
- Your child must be able to sit down and focus for at least 2h 30min. (Duration of Paper 2 is 1h 30min.)



Thank You