Second Form 2015 End of Year Examination Solutions 2) D 3) A 4) D 5) A () B 6) Hire Purchase Price = Deposit + 12 monthly installments = \$1120 + 12 (\$168) =\$3136 Savings = Hire Purchase Price - Cash Price = \$3136 - \$2800 = \$336 1) a) Overtime = 8x \$5.60 x 2 = \$80.00 6) Basic week = \$5.00 x 40 = \$200 Overtime Pay = \$ 320 - \$ 200 = 5120 Number of overtime hours = 5120 \$5.00 ×2 = 12 hours

8) a	0.005369 = 5.369 × 10-3
	$565.01 = 5.6507 \times 10^{2}$
	$0.04 \times 3.5 = 0.14$
	$= 1.4 \times 10^{-1}$
9) a)	3 De - Krazo Xe
	$\frac{3}{pq} = \frac{p \times p \times p \times q}{p \times p}$
	- P2
L)	y x 3x x Sn
5/	$\frac{7m}{5n \times 3x} + \frac{5t}{3x \times 5n}$
	$\frac{21 \text{mx}}{15 \text{nx}} + \frac{25 \text{nt}}{15 \text{nx}}$
	$= \frac{21mx + 25nt}{15nx}$
	-5n2
	- <b>\</b>
	5x - 3(x - 2)
	=5x-3x+6
	=2x+6

$$(6) a) 4(y-3) + 2(y+i) = 0$$

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$$4(y-3) + 2(y+i) = 0$$

$$6y-i0 = 0$$

$$y = 5$$

$$3(5x+2) - 5(5-2x) = 0$$

$$15x + 6 - 25 + 10x = 0$$

$$25x + 19 = 0$$

$$25x + 19 = 0$$

$$25x + 19$$

$$x = \frac{19}{25}$$

$$11) a) k = \frac{1}{2} mx + x k$$

$$k = mx + \frac{1}{2} m$$

$$k = x$$

$$m$$

$$4) \frac{3}{x} + \frac{5 = 17}{x} + \frac{1}{2} x + \frac{1}{2}$$

$$3 = 12 - x + \frac{1}{2}$$

$$4 = 3x$$

P) AD : AB = 1:3 Scale factor of lengths  
: scale factor of areas is 
$$i^{2} : 3^{2}$$
  
I : 9  
Area of ADE = 54 = 6 cm<sup>2</sup>  
Area of BCED = 54 - 6  
= 48 cm<sup>2</sup>  
(3a)  $10h^{2} - 5h = 5h(2h - i)$   
b)  $25x^{2} - 5x = 5x(5x - i)$   
c)  $18xy^{2} - 21x^{2}y = 3xy(6y - 7x)$   
H) Exterior angle =  $180^{\circ} - 120^{\circ}$   
 $= 60^{\circ}$   
Number of sides =  $360^{\circ}$   
 $= 6$   
IS b) Drawing the Venn diagram first makes answering part a easier  
 $A = 6$   
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a);)  $A' \wedge B = 2hJ$   $\ddot{u}$ )  $A \cup B' = 2s, e, a, t, l, i, cJ$ 16) Κ .5 cm 9.1 cm 60° 490 M 10 cm (17);  $3x + (x+i) \ge 7$ 4x+1 ≥7 4x≥6 -x ≥ <u>3</u> 2 ~ ii) 1 3/2 Volume = TTr<sup>2</sup>h 19)  $=\frac{22}{7} \times 14^{2} \times 6$  $=3696 \text{ cm}^{3}$