

**JAMHURI YA MUUNGANO WA TANZANIA
BARAZA LA MITIHANI
MTIHANI WA KUMALIZA ELIMU YA MSINGI**

04

HISABATI

Muda: Saa 2:00

Jumatano, 09 Septemba 2015 asubuhi

Maelekezo

1. Karatasi hii ina sehemu A, B na C zenye maswali hamsini (50).
2. Jibu maswali yote katika kila sehemu.
3. Soma maelekezo yote yaliyoko katika karatasi maalum ya kujibia (OMR) na kujaza taarifa zote.
4. Andika Namba yako ya Mtihani kisha weka kivuli kwenye tarakimu za namba hiyo mahali panapohusika kwenye karatasi yako ya kujibia.
5. Kokotoa kila swali na kisha weka kivuli kwenye herufi ya jibu lililo sahihi kwa kila swali katika karatasi yako ya kujibia uliyopewa, kwa mfano kama jibu sahihi ni A weka kivuli kama ifuatavyo:

EA	CB	CC	CD	CE
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6. Ukigundua kuwa herufi uliyowekea kivuli si jibu sahihi, futa kivuli hicho kwa umakini kwa kutumia kifutio safi kabla ya kuweka kivuli katika herufi mpya.
7. Tumia penseli ya HB tu.
8. Simu za mkononi na vikokotozi haviruhusiwi ndani ya chumba cha mtihani.



SEHEMU A: MATENDO YA KIHISABATI

Katika swali la 1 – 25, kokotoa swali ulilopewa na kisha weka **kivuli** kwenye herufi ya jibu lililo sahihi katika karatasi yako ya kujibia.

NA	SWALI	SEHEMU YA KAZI
1.	$225 + 59 + 3,772 =$ A 4,046 B 3,956 C 4,056 D 4,057 E 3,946	$\begin{array}{r} 3772 \\ + 59 \\ + 225 \\ \hline 4056 \end{array}$
2.	$80,709 - 5,987 =$ A 75,822 B 74,722 C 75,922 D 74,812 E 75,722	$\begin{array}{r} 80709 \\ - 5987 \\ \hline 74722 \end{array}$
3.	$170.2 \div 74 =$ A 2.3 B 2.40 C 2.03 D 3.02 E 3.20	$\begin{array}{r} 2.31 \\ 74 \overline{) 170.2} \\ \underline{148} \\ 222 \\ \underline{148} \\ 740 \\ \underline{740} \\ 0 \end{array}$
4.	$94 \times 765 =$ A 71,910 B 71,470 C 61,470 D 71,610 E 71,510	$\begin{array}{r} 765 \\ \times 94 \\ \hline 3060 \\ + 68850 \\ \hline 71470 \end{array}$
5.	$3\frac{3}{5} + 1\frac{2}{3} =$ A $4\frac{6}{15}$ B $4\frac{5}{8}$ C $5\frac{3}{15}$ D $5\frac{4}{15}$ E $5\frac{5}{8}$	$3\frac{3}{5} + 1\frac{2}{3} = 4\frac{9}{15} + 1\frac{10}{15} = 5\frac{19}{15} = 5\frac{12}{15}$

NA	SWALI	SEHEMU YA KAZI
6.	$5\frac{2}{3} - 2\frac{1}{4} =$ A $3\frac{2}{12}$ B $3\frac{4}{12}$ C $3\frac{11}{12}$ D $3\frac{5}{12}$ E $3\frac{7}{12}$	$5\frac{2}{3} - 2\frac{1}{4} =$ $3\frac{11}{12}$
7.	$-14 \times (-19 + 16) =$ A -48 B 48 C 42 D -42 E 49	$-14 \times (-19 + 16) =$ $-14 \times (-3) = 42$
8.	$(+17) + (-35) =$ A -52 B -18 C 18 D 42 E 52	$(+17) + (-35) =$ $17 - 35 = -18$
9.	$16\frac{1}{2} \div 6\frac{1}{3} =$ A $\frac{16}{6}$ B $\frac{19}{3}$ C $\frac{33}{2}$ D $\frac{99}{38}$ E $\frac{99}{19}$	$16\frac{1}{2} \div 6\frac{1}{3} =$ $\frac{33}{2}$
10.	$7,590 \div 15 =$ A 516 B 56 C 506 D 65 E 605	$7,590 \div 15 =$ 506

NA	SWALI	SEHEMU YA KAZI
11.	$30.24 \div 12 =$ A 2,520 B 25.20 C 252 D 2.52 E 0.252	$30.24 \div 12 = 2.52$
12.	$19.62 + 6.35 + 21.1 =$ A 47.70 B 47.98 C 46.07 D 46.98 E 47.07	$19.62 + 6.35 + 21.1 = 46.07$
13.	Ikiwa $m = -7$ na $n = -5$, tafuta thamani ya $\frac{m+n}{n-m}$. A -12 B 2 C 1 D 6 E -6	$\frac{-7 + (-5)}{-5 - (-7)} = \frac{-12}{-2} = 6$
14.	Kokotoa thamani ya $12 - (-24) + (-9) \times 4$. A 0 B 48 C -48 D 72 E 108	$12 - (-24) + (-9) \times 4 = 12 + 24 - 36 = 0$
15.	Tafuta zao la namba tasa zilizopo kati ya 1 na 10. A 384 B 210 C 945 D 1,890 E 3,840	$2 \times 3 \times 5 \times 7 = 210$

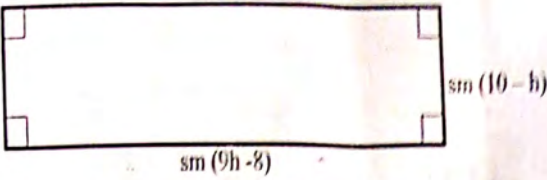
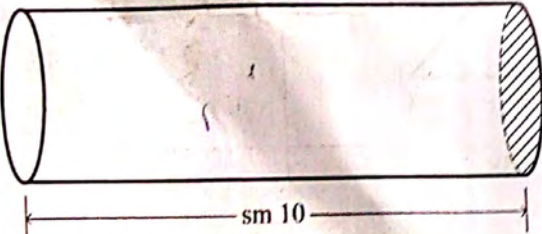
Ukurasa wa 4 kati ya 14

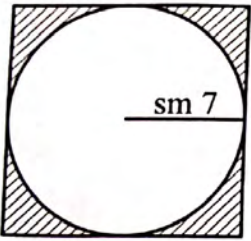
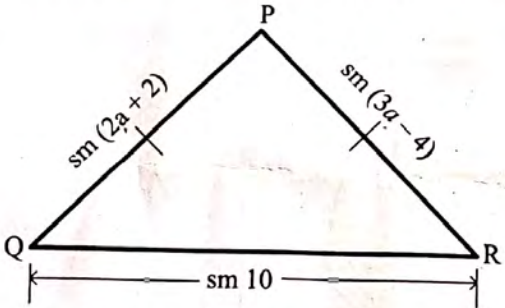
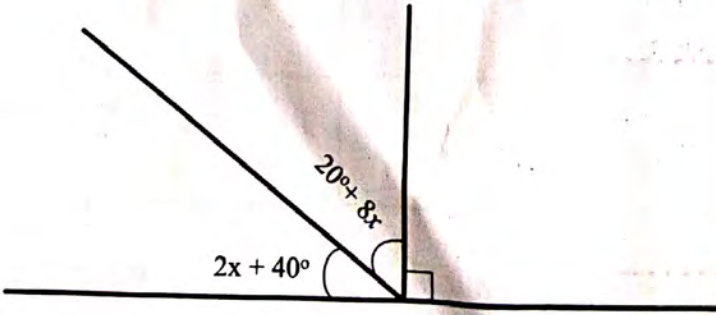
NA	SWALI	SEHEMU YA KAZI
16.	Tafuta Kigawo Kikubwa cha Shirika (K.K.S) cha 12, 24 na 36. A 6 B 12 C 24 D 36 E 72	
17.	Andika $4\frac{1}{5}\%$ kuwa sehemu. A $\frac{1}{500}$ B $\frac{2}{500}$ C $\frac{4}{500}$ D $\frac{21}{500}$ E $\frac{20}{500}$	
18.	Rahisisha $3(m-n)+5n-7m$. A $4m-2n$ B $-4m-2n$ C $2n-4m$ D $3m-3n$ E $-4m-8n$	
19.	Tafuta thamani ya y iwapo $\frac{3y-5}{7} + y = 5$. A 2 B 6 C 4 D 8 E 5	
20.	Kuna $\frac{1}{3}$ ngapi katika $\frac{41}{3}$? A $4\frac{5}{9}$ B $13\frac{2}{3}$ C $\frac{9}{41}$ D 9 E 41	

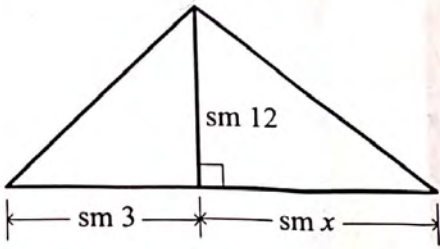
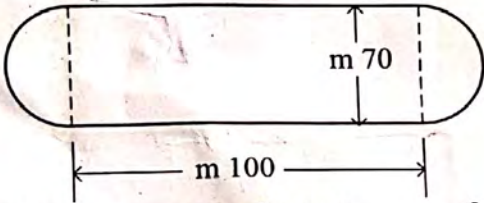
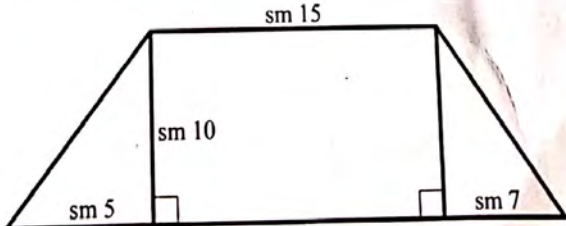
NA	SWALI	SEHEMU YA KAZI
21.	Badili namba ya kirumi CMXCIX kuwa namba ya kawaida. A 9,999 B 99 C 999 D 99,999 E 999,999	799
22.	Andika namba inayokosekana katika mfululizo huu: 1, 4, __, 16, 25. A 5 B 6 C 9 D 10 E 12	$ \begin{array}{c} 16 \\ \swarrow \quad \searrow \\ 4 \quad 9 \\ \swarrow \quad \searrow \\ 1 \quad 25 \end{array} $
23.	Tafuta Kigawe Kidogo cha Shirika (KDS) cha 6, 9 na 12. A 3 B 36 C 54 D 72 E 108	$ \begin{array}{r} 16 \\ 36 \\ \hline 52 \end{array} $
24.	Tafuta thamani ya A iwapo $2\frac{1}{4} : A = 12 : 48$. A 4 B 8 C 9 D 12 E 48	$ \begin{array}{r} 12 \times 48 \\ 48 \times 12 \\ \hline 576 \end{array} $
25.	$ \begin{array}{r} \text{dm} \quad \text{sm} \quad \text{mm} \\ 4 \quad 3 \quad 5 \\ - 1 \quad 4 \quad 6 \\ \hline \end{array} $ A dm 2 sm 8 mm 9 B dm 2 sm 9 mm 9 C dm 3 sm 8 mm 9 D dm 2 sm 8 mm 1 E dm 1 sm 8 mm 8	$ \begin{array}{r} 4 \quad 3 \quad 5 \\ - 1 \quad 4 \quad 6 \\ \hline 2 \quad 8 \quad 9 \end{array} $

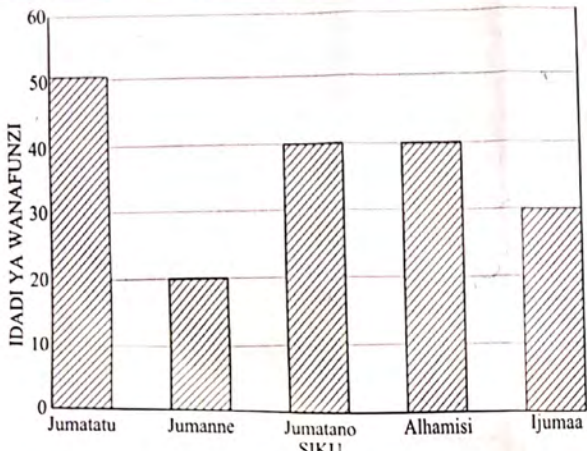
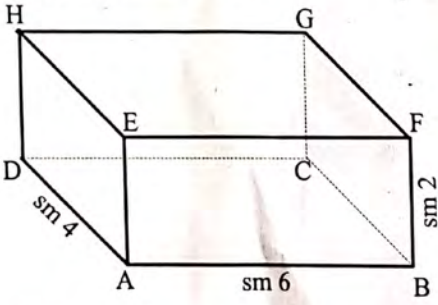
SEHEMU B: MAUMBO

Katika swali la 26 – 38, ainisha mahitaji ya swali, kokotoa jibu na kisha weka kivuli kwenye herufi ya jibu lililo sahihi katika karatasi yako ya kujibia.

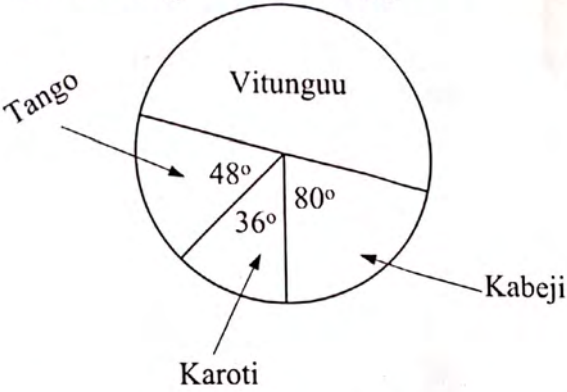
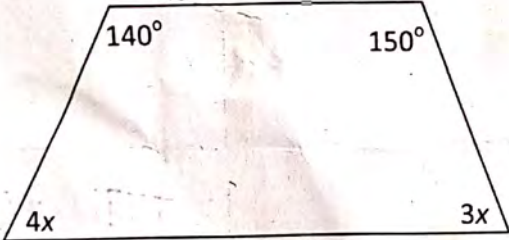
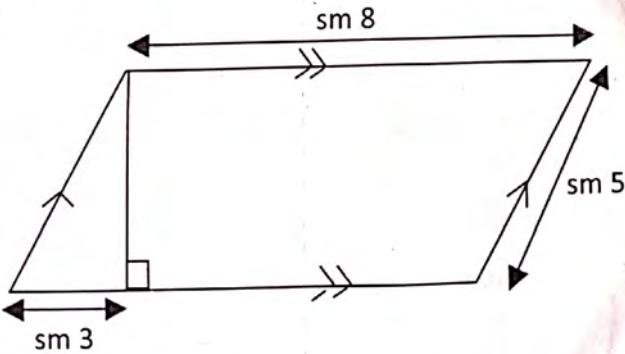
NA	SWALI	SEHEMU YA KAZI
26.	<p>Tafuta eneo la mstatili ufuatao:</p>  <p>A $\text{sm}^2 2$ B $\text{sm}^2 8$ C $\text{sm}^2 36$ D $\text{sm}^2 80$ E $\text{sm}^2 20$</p>	<p>(10-h)</p> <p>9h-8</p> <p>10</p>
27.	<p>Tafuta kipenyo cha mcheduara ufuatao iwapo ujazo wake ni $\text{sm}^3 61.6$. (Tumia $\pi = \frac{22}{7}$)</p>  <p>A $\text{sm} 1.4$ B $\text{sm} 1.96$ C $\text{sm} 2.8$ D $\text{sm} 6.16$ E $\text{sm} 3.92$</p>	<p>10</p>

NA	SWALI	SEHEMU YA KAZI
28.	<p>Tafuta eneo lililotiwa kivuli iwapo duara lililochorwa ndani ya mraba lina nusu kipenyo cha sm 7. (Tumia $\pi = \frac{22}{7}$)</p>  <p>A sm² 154 B sm² 49 C sm² 32 D sm² 42 E sm² 196</p>	<p>Handwritten calculations and notes for question 28, including the value of pi and some area calculations.</p>
29.	<p>Tafuta mzingo wa pembetatu pacha PQR.</p>  <p>A sm 6 B sm 14 C sm 28 D sm 22 E sm 38</p>	<p>Handwritten calculations for question 29, showing the process of solving for 'a' using the perimeter and the given side lengths.</p>
30.	<p>Tafuta thamani ya x katika umbo lifuatalo.</p>  <p>A 46° B 44° C 3° D 10° E 12°</p>	<p>Handwritten calculations for question 30, showing the use of the angle sum property around a point to solve for x.</p>

NA	SWALI	SEHEMU YA KAZI
31.	<p>Eneo la pembetatu ifuatayo ni sm^2 66. Tafuta thamani ya x.</p>  <p>A 3 B 8 C 11 D 12 E 15</p>	
32.	<p>Tafuta eneo la kiwanja cha mpira wa miguu kilichooneshwa kwa umbo lifuatalo: (Tumia $\pi = \frac{22}{7}$)</p>  <p>A m^2 3,850 B m^2 7,000 C m^2 7,770 D m^2 10,850 E m^2 15,400</p>	<p>Handwritten calculations for question 32:</p> $70 \times 100 = 7000$ $\frac{22}{7} \times \frac{70^2}{4} = \frac{22}{7} \times \frac{4900}{4} = \frac{22}{7} \times 1225 = 22 \times 175 = 3850$ $7000 + 3850 = 10850$
33.	<p>Tafuta eneo la trapeza ifuatayo:</p>  <p>A sm^2 70 B sm^2 105 C sm^2 150 D sm^2 210 E sm^2 50</p>	<p>Handwritten calculations for question 33:</p> $15 + 5 + 7 = 27$ $\frac{27 \times 10}{2} = \frac{270}{2} = 135$

NA	SWALI	SEHEMU YA KAZI
34.	<p>Kielelezo kifuatacho kinaonesha mahudhurio ya wanafunzi wa Darasa la Saba katika Shule ya Msingi Tumbi kwa siku tano za wiki. Tafuta wastani wa mahudhurio ya wanafunzi hao kwa siku.</p>  <p>A 180 B 50 C 36 D 30 E 20</p>	
35.	<p>Tafuta eneo la nyuso za mche mstatitili ufuatao ambao upo wazi upande wa HEFG.</p>  <p>A cm^2 88 B cm^2 64 C cm^2 48 D cm^2 44 E cm^2 40</p>	

Ukurasa wa 10 kati ya 14

NA	SWALI	SEHEMU YA KAZI
36.	<p>Shule ya msingi Ilembulu ilivuna jumla ya kilogramu 4,500 za mboga mbalimbali kama inavyoonekana katika grafu kwa duara ifuatayo. Tafuta idadi ya kilogramu za vitunguu zilizovunwa.</p>  <p>A 2,050 B 196 C 2,450 D 1,050 E 164</p>	<p>Handwritten calculations and notes in the right margin of question 36.</p>
37.	<p>Tafuta thamani ya x katika umbo lifuatalo:</p>  <p>A 10° B 30° C 40° D 140° E 150°</p>	<p>Handwritten calculations and notes in the right margin of question 37.</p>
38.	<p>Tafuta eneo la msambamba ufuatao:</p>  <p>A $\text{sm}^2 24$ B $\text{sm}^2 32$ C $\text{sm}^2 40$ D $\text{sm}^2 12$ E $\text{sm}^2 25$</p>	<p>Handwritten calculations and notes in the right margin of question 38.</p>

SEHEMU C: MAFUMBO

Katika swali la 39 – 50, ainisha mahitaji ya swali, kokotoa jibu na kisha weka kivuli kwenye herufi ya jibu lililo sahihi katika karatasi yako ya kujibia.

NA	SWALI	SEHEMU YA KAZI
39.	<p>Zebedayo ana ng'ombe 7 wa maziwa. Iwapo kila ng'ombe hutoa lita 5 za maziwa kila siku, je, hupata lita ngapi kwa wiki?</p> <p>A 215 B 225 C 235 D 245 E 255</p>	
40.	<p>Perima ana noti na sarafu za kitanzania kama ifuatavyo: noti 2 @ sh. 10,000; noti 3 @ sh 5,000; noti 4 @ sh. 2,000; noti 5 @ sh. 1,000 na noti 10 @ sh. 500. Pia ana sarafu 5 @ sh.200 na sarafu 4 @ sh. 100. Je, jumla ana kiasi cha shilingi ngapi?</p> <p>A 58,400/= B 54,400/= C 19,800/= D 34,400/= E 48,400/=</p>	
41.	<p>Musa aliweka fedha katika benki inayotoa riba ya asilimia 5 kwa mwaka. Iwapo aliweka fedha hizo kwa muda wa mwaka mmoja na kupata faida ya sh 2,500. Je, aliweka benki shilingi ngapi?</p> <p>A sh. 5,000 B sh. 50,000 C sh. 500,000 D sh. 50,005 E sh. 5,005</p>	
42.	<p>Kazaroho alijibu kwa usahihi maswali 45 kati ya maswali 50 ya mtihani wa somo la Kiswahili. Je, Kazaroho alipata asilimia ngapi?</p> <p>A 95 B 45 C 5 D 50 E 90</p>	

NA	SWALI	SEHEMU YA KAZI
43.	<p>Shule ya msingi Maendeleo ina walimu 28 ambapo kati yao walimu 18 ni wa kike. Je, walimu wa kiume ni sehemu gani ya walimu wote?</p> <p>A $\frac{18}{28}$ B $\frac{9}{14}$ C $\frac{5}{14}$</p> <p>D $\frac{5}{9}$ E $\frac{5}{28}$</p>	
44.	<p>Shule ya msingi Maendeleo ina chumba cha mikutano cha urefu wa meta 12 na upana wa meta 5.5. Iwapo ndani ya chumba hicho eneo la $m^2 2.5$ limetengwa kwa ajili ya kuweka nyaraka mbalimbali, tafuta eneo lililobakia.</p> <p>A $m^2 66$ B $m^2 68.5$ C $m^2 62.5$</p> <p>D $m^2 63.5$ E $m^2 53.5$</p>	
45.	<p>Moga na Juma waligawana shilingi mia moja ishirini na tano elfu katika uwiano wa 2:3 kwa msuatano huu. Je, Juma alipata shilingi ngapi?</p> <p>A 25,000/= B 50,000 C 62,500/=</p> <p>D 75,000/= E 100,000/=</p>	
46.	<p>Gari la Maganga husafiri umbali wa km 20 kwa mwendokasi wa km 80 kwa saa. Je, hutumia muda gani kukamilisha safari yote?</p> <p>A saa 0.25 B saa 0.5 C saa 2.00</p> <p>D saa 4.00 E saa 8.00</p>	

NA	SWALI	SEHEMU YA KAZI										
47.	<p>Kitabu kinauzwa shilingi elfu saba mia tano katika duka la Jamali. Iwapo mwenye duka atatoa punguzo la asilimia kumi, je kitabu hicho kitanunuliwa kwa shilingi ngapi?</p> <p>A 7,500/= B 7,490/= C 8,250/=</p> <p>D 6,750/= E 750/=</p>											
48.	<p>Mshahara wa Kambona ni shilingi 456,500 kwa mwezi. Ikiwa mshara huo utapanda kwa asilimia 26, je, mshahara mpya utakuwa ni kiasi gani?</p> <p>A sh 118,690 B sh 456,526 C sh 337,810</p> <p>D sh 574,090 E sh 575,190</p>											
49.	<p>Mfanya biashara aliuza sukari kwa miezi mitatu kama ifuatavyo: Januari kilo 1,500, Februari kilo 2,500 na Machi kilo 1,250. Je, jumla aliuza tani ngapi za sukari? (Tani 1 = kilogramu 1,000)</p> <p>A tani 4.25 B tani 425 C tani 5.25</p> <p>D tani 6.25 E tani 5,250.</p>											
50.	<p>Uzito wa matunda yaliyouzwa katika soko la Mikunda kwa siku nne mfululizo ilikuwa kama ifuatavyo:</p> <table><tr><th>Siku</th><th>Jumatatu</th><th>Jumanne</th><th>Jumatano</th><th>Alhamisi</th></tr><tr><td>Uzito (tani)</td><td>2</td><td>$1\frac{1}{2}$</td><td>$\frac{1}{2}$</td><td>$2\frac{1}{2}$</td></tr></table> <p>Je, wastani wa kilo za matunda zilizouzwa sokoni kwa siku ilikuwa kiasi gani?</p> <p>A kg 1,625 B kg 1,375 C kg 1,250</p> <p>D kg 1,500 E kg 6,500</p>	Siku	Jumatatu	Jumanne	Jumatano	Alhamisi	Uzito (tani)	2	$1\frac{1}{2}$	$\frac{1}{2}$	$2\frac{1}{2}$	
Siku	Jumatatu	Jumanne	Jumatano	Alhamisi								
Uzito (tani)	2	$1\frac{1}{2}$	$\frac{1}{2}$	$2\frac{1}{2}$								