

51 5年 体積①

制限時間

20分

開始時間

■時■分

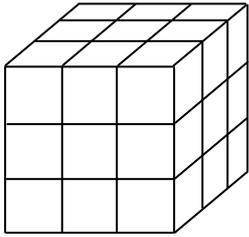
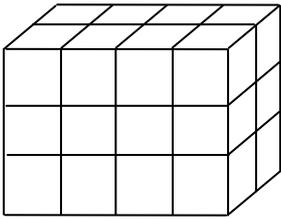
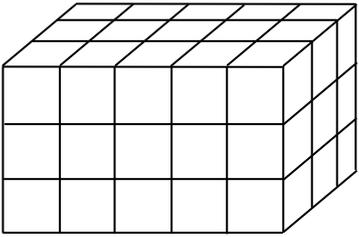
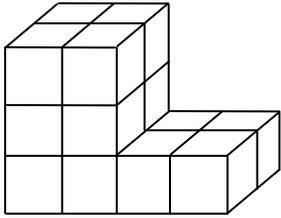
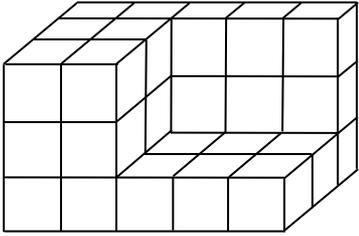
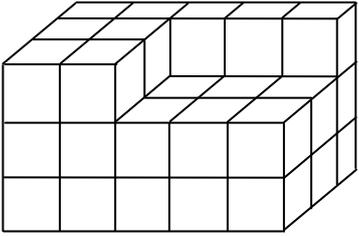
終了時間

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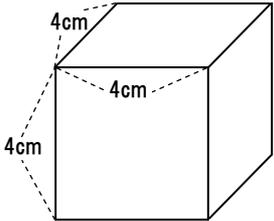
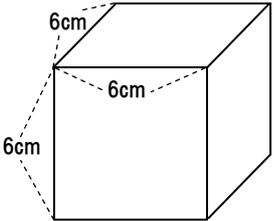
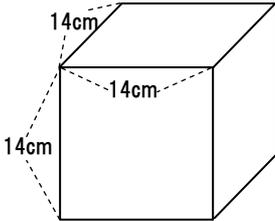
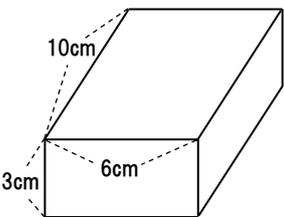
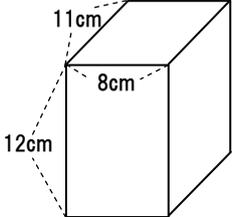
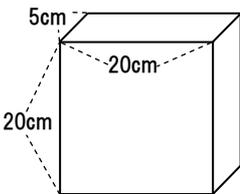
合格点

80点

1辺が1cmの立方体のつみきで立体を作りました。体積は何 cm^3 ですか？(4点×6問=24点)

<p>①</p> 	<p>②</p> 	<p>③</p> 
<p>④</p> 	<p>⑤</p> 	<p>⑥</p> 

次の直方体や立方体の体積を求めましょう。(5点×6問=30点)

<p>①</p> 	<p>②</p> 	<p>③</p> 
<p>④</p> 	<p>⑤</p> 	<p>⑥</p> 

次の直方体や立方体の体積を求めましょう。(4点×4問=16点)

<p>① たて6cm、横8cm、高さ2cmの直方体</p>	<p>② たて4cm、横5cm、高さ3cmの直方体</p>
<p>③ 1辺5cmの立方体</p>	<p>④ 1辺3cmの立方体</p>

次の体積を[]の単位であらわしましょう。(3点×10問=30点)

<p>① 4m^3 [cm^3]</p>	<p>⑥ 5000000cm^3 [m^3]</p>
<p>② 52m^3 [cm^3]</p>	<p>⑦ 31000000cm^3 [m^3]</p>
<p>③ 3.9m^3 [cm^3]</p>	<p>⑧ 4700000cm^3 [m^3]</p>
<p>④ 0.6m^3 [cm^3]</p>	<p>⑨ 200000cm^3 [m^3]</p>
<p>⑤ 0.81m^3 [cm^3]</p>	<p>⑩ 960000cm^3 [m^3]</p>

52 5年 体積②

制限時間

20分

開始時間

■時■分

終了時間

■時■分

合格点

80点

次の容積を求めましょう。(5点×6問=30点)

① たて4m、横15m、深さ3mの水そう	② たて10m、横8m、深さ7mの水そう
③ たて25m、横8m、深さ2mのプール	④ たて4m、横5m、深さ1.5mのプール
⑤ たて、横、深さがどれも30cmの箱	⑥ たて、横、深さがどれも5mの水そう

高さが1cmのときの体積が 8cm^3 の直方体について、次の問題に答えましょう。(5点×5問=25点)

	① 高さが2cmのとき、体積は何 cm^3 ですか？
	② 高さが3cmのとき、体積は何 cm^3 ですか？
	③ 高さが4cmのとき、体積は何 cm^3 ですか？
	④ 直方体の体積は、高さに比例しますか？
	⑤ 体積が 72cm^3 のとき、高さは何cmですか？

次の立体の体積を求めましょう。(5点×9問=45点)

①	②	③
④	⑤	⑥
⑦	⑧	⑨

63 5年 面積①

制限時間

20分

開始時間

■時■分

終了時間

■時■分

合格点

80点

次の三角形の面積を求めましょう。(5点×4問=20点)

<p>①</p>	<p>②</p>	<p>③</p>	<p>④</p>
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1マスを1cm×1cmとすると、次の三角形の面積を求めましょう。(5点×4問=20点)

<p>①</p>	<p>②</p>	<p>③</p>	<p>④</p>
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次の四角形の面積を求めましょう。(5点×4問=20点)

<p>①</p>	<p>②</p>	<p>③</p>	<p>④</p>
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次の平行四辺形の面積を求めましょう。(5点×4問=20点)

<p>①</p>	<p>②</p>	<p>③</p>	<p>④</p>
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1マスを1cm×1cmとすると、次の三角形の面積を求めましょう。(5点×4問=20点)

<p>①</p>	<p>②</p>	<p>③</p>	<p>④</p>
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64 5年 面積②

制限時間

20分

開始時間

■時■分

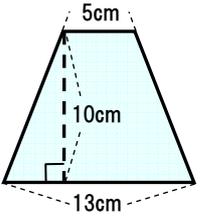
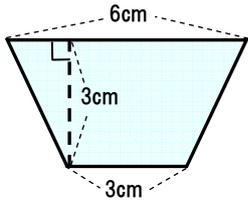
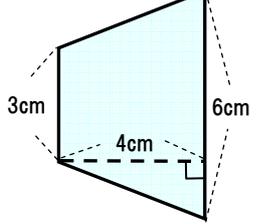
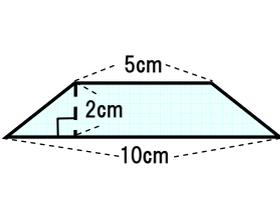
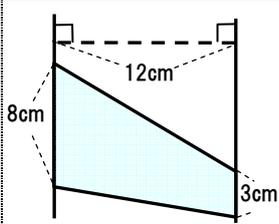
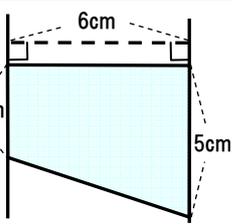
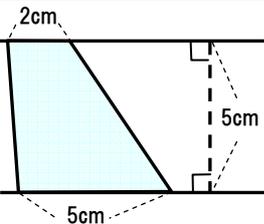
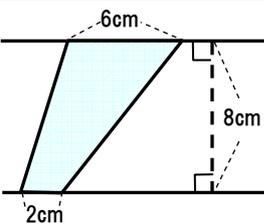
終了時間

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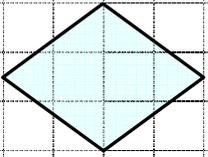
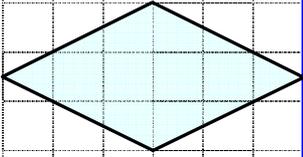
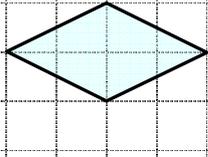
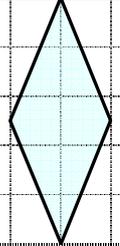
合格点

80点

次の台形の面積を求めましょう。(5点×8問=40点)

① 	② 	③ 	④ 
⑤ 	⑥ 	⑦ 	⑧ 

1マスを1cm×1cmとするととき、次のひし形の面積を求めましょう。(5点×4問=20点)

① 	② 	③ 	④ 
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次の問題に答えましょう。(5点×4問=20点)

三角形の高さを5cmときめて、底辺を1cm、2cm、3cm...と変えていきます。

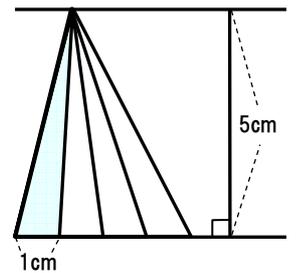
① 底辺と面積の関係を、表にかきましょう。

底辺(cm)	1	2	3	4	5	6	7	8
面積(cm ²)	2.5							

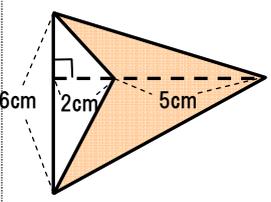
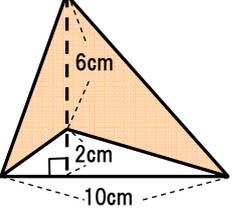
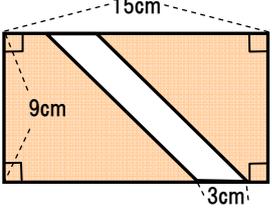
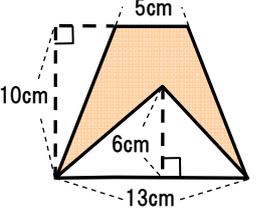
② 底辺と面積は比例していますか？

③ 底辺が12cmのとき、面積は何cm²ですか？

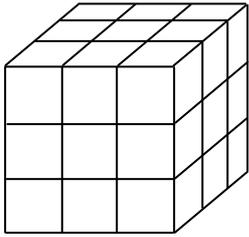
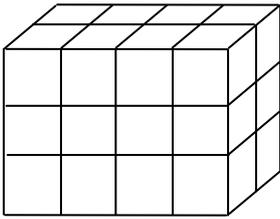
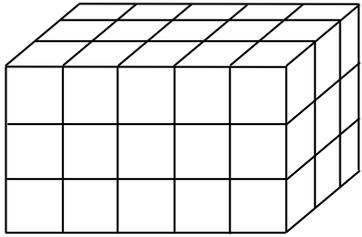
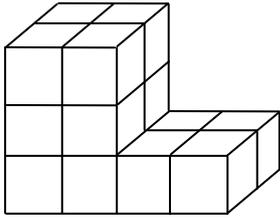
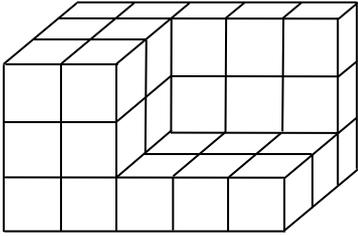
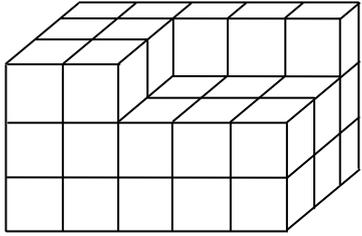
④ 底辺が20cmのとき、面積は何cm²ですか？



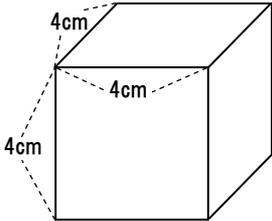
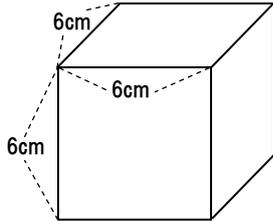
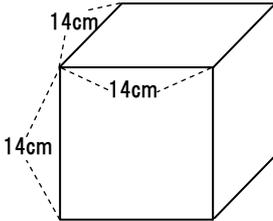
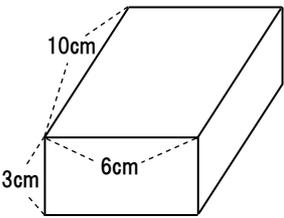
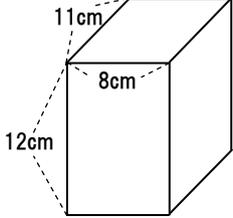
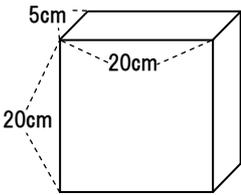
次の色をぬった部分の面積を求めましょう。(5点×4問=20点)

① 	② 	③ 	④ 
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1辺が1cmの立方体のつみきで立体を作りました。体積は何 cm^3 ですか？(4点×6問=24点)

①  27cm^3	②  24cm^3	③  45cm^3
④  16cm^3	⑤  33cm^3	⑥  39cm^3

次の直方体や立方体の体積を求めましょう。(5点×6問=30点)

①  $4 \times 4 \times 4 = 64(\text{cm}^3)$	②  $6 \times 6 \times 6 = 216(\text{cm}^3)$	③  $14 \times 14 \times 14 = 2744(\text{cm}^3)$
④  $10 \times 6 \times 3 = 180(\text{cm}^3)$	⑤  $11 \times 8 \times 12 = 1056(\text{cm}^3)$	⑥  $5 \times 20 \times 20 = 2000(\text{cm}^3)$

次の直方体や立方体の体積を求めましょう。(4点×4問=16点)

① たて6cm、横8cm、高さ2cmの直方体 $6 \times 8 \times 2 = 96(\text{cm}^3)$	② たて4cm、横5cm、高さ3cmの直方体 $4 \times 5 \times 3 = 60(\text{cm}^3)$
③ 1辺5cmの立方体 $5 \times 5 \times 5 = 125(\text{cm}^3)$	④ 1辺3cmの立方体 $3 \times 3 \times 3 = 27(\text{cm}^3)$

次の体積を[]の単位であらわしましょう。(3点×10問=30点)

① 4m^3 [cm^3]	4000000cm^3	⑥ 5000000cm^3 [m^3]	5m^3
② 52m^3 [cm^3]	52000000cm^3	⑦ 31000000cm^3 [m^3]	31m^3
③ 3.9m^3 [cm^3]	3900000cm^3	⑧ 4700000cm^3 [m^3]	4.7m^3
④ 0.6m^3 [cm^3]	600000cm^3	⑨ 200000cm^3 [m^3]	0.2m^3
⑤ 0.81m^3 [cm^3]	810000cm^3	⑩ 960000cm^3 [m^3]	0.96m^3

次の容積を求めましょう。(5点×6問=30点)

① たて4m、横15m、深さ3mの水そう $4 \times 15 \times 3 = 180(\text{m}^3)$	② たて10m、横8m、深さ7mの水そう $10 \times 8 \times 7 = 560(\text{m}^3)$
③ たて25m、横8m、深さ2mのプール $25 \times 8 \times 2 = 400(\text{m}^3)$	④ たて4m、横5m、深さ1.5mのプール $4 \times 5 \times 1.5 = 30(\text{m}^3)$
⑤ たて、横、深さがどれも30cmの箱 $30 \times 30 \times 30 = 27000(\text{cm}^3)$	⑥ たて、横、深さがどれも5mの水そう $5 \times 5 \times 5 = 125(\text{m}^3)$

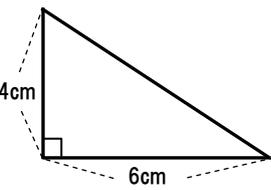
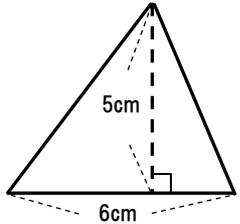
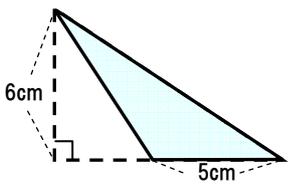
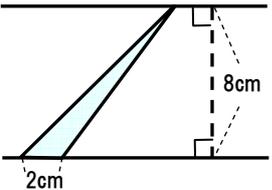
高さが1cmのときの体積が 8cm^3 の直方体について、次の問題に答えましょう。(5点×5問=25点)

	① 高さが2cmのとき、体積は何 cm^3 ですか？	16cm^3
	② 高さが3cmのとき、体積は何 cm^3 ですか？	24cm^3
	③ 高さが4cmのとき、体積は何 cm^3 ですか？	32cm^3
	④ 直方体の体積は、高さに比例しますか？	比例する
	⑤ 体積が 72cm^3 のとき、高さは何cmですか？	9cm

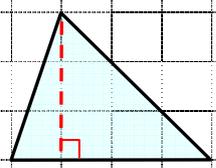
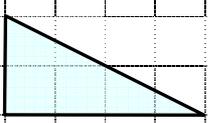
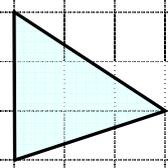
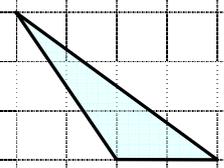
次の立体の体積を求めましょう。(5点×9問=45点)

① $7 \times 7 \times 3 = 147$ $7 \times 12 \times 3 = 252$ $147 + 252 = 399(\text{cm}^3)$	② $6 \times 4 \times 12 = 288$ $4 \times 5 \times 5 = 100$ $288 + 100 = 388(\text{cm}^3)$	③ $5 \times 4 \times 7 = 140$ $5 \times 9 \times 5 = 225$ $140 + 225 = 365(\text{cm}^3)$
④ $4 \times 7 \times 4 = 112$ $2 \times 2 \times 4 = 16$ $112 - 16 = 96(\text{cm}^3)$	⑤ $6 \times 5 \times 3 = 90$ $2 \times 3 \times 3 = 18$ $90 - 18 = 72(\text{cm}^3)$	⑥ $6 \times 16 \times 10 = 960$ $6 \times 5 \times 7 = 210$ $960 - 210 = 750(\text{cm}^3)$
⑦ $6 \times 12 \times 7 = 504$ $4 \times 5 \times 3 = 60$ $504 - 60 = 444(\text{cm}^3)$	⑧ $5 \times 7 \times 5 = 175$ $3 \times 3 \times 2 = 18$ $175 - 18 = 157(\text{cm}^3)$	⑨ $8 \times 12 \times 7 = 672$ $6 \times 8 \times 5 = 240$ $672 - 240 = 432(\text{cm}^3)$

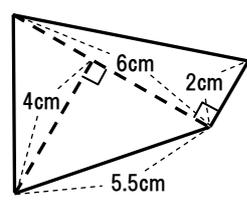
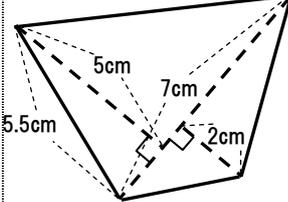
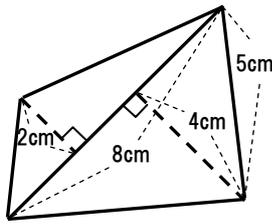
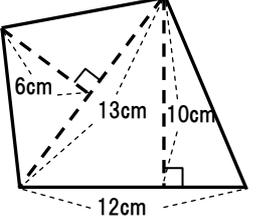
次の三角形の面積を求めましょう。(5点×4問=20点)

<p>①</p>  <p>$6 \times 4 \div 2 = 12\text{cm}^2$</p>	<p>②</p>  <p>$6 \times 5 \div 2 = 15\text{cm}^2$</p>	<p>③</p>  <p>$5 \times 6 \div 2 = 15\text{cm}^2$</p>	<p>④</p>  <p>$2 \times 8 \div 2 = 8\text{cm}^2$</p>
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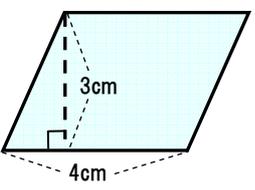
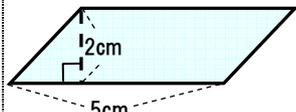
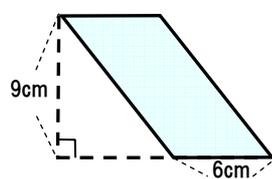
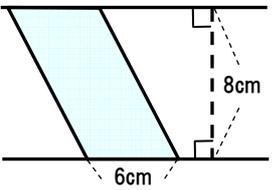
1マスを1cm×1cmとすると、次の三角形の面積を求めましょう。(5点×4問=20点)

<p>①</p>  <p>$4 \times 3 \div 2 = 6\text{cm}^2$</p>	<p>②</p>  <p>$4 \times 2 \div 2 = 4\text{cm}^2$</p>	<p>③</p>  <p>$3 \times 3 \div 2 = 4.5\text{cm}^2$</p>	<p>④</p>  <p>$2 \times 3 \div 2 = 3\text{cm}^2$</p>
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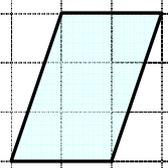
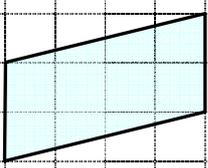
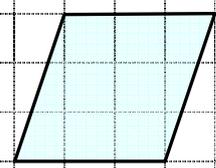
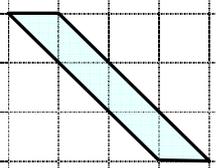
次の四角形の面積を求めましょう。(5点×4問=20点)

<p>①</p>  <p>$6 \times 2 \div 2 = 6$ $6 \times 4 \div 2 = 12$ $6 + 12 = 18\text{cm}^2$</p>	<p>②</p>  <p>$7 \times 5 \div 2 = 17.5$ $7 \times 2 \div 2 = 7$ $17.5 + 7 = 24.5\text{cm}^2$</p>	<p>③</p>  <p>$8 \times 2 \div 2 = 8$ $8 \times 4 \div 2 = 16$ $8 + 16 = 24\text{cm}^2$</p>	<p>④</p>  <p>$6 \times 13 \div 2 = 39$ $12 \times 10 \div 2 = 60$ $39 + 60 = 99\text{cm}^2$</p>
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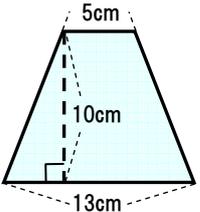
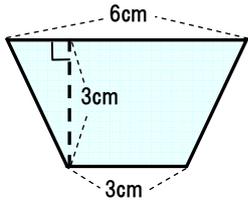
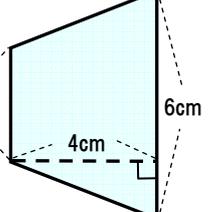
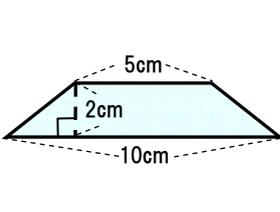
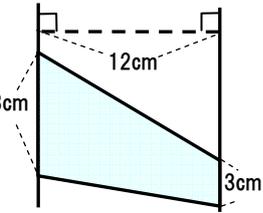
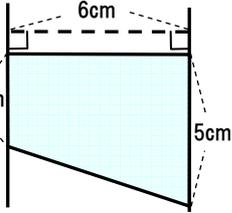
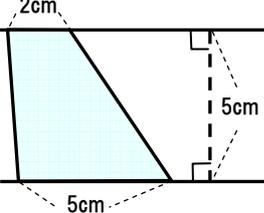
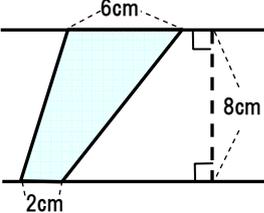
次の平行四辺形の面積を求めましょう。(5点×4問=20点)

<p>①</p>  <p>$4 \times 3 = 12\text{cm}^2$</p>	<p>②</p>  <p>$5 \times 2 = 10\text{cm}^2$</p>	<p>③</p>  <p>$6 \times 9 = 54\text{cm}^2$</p>	<p>④</p>  <p>$6 \times 8 = 48\text{cm}^2$</p>
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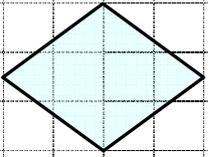
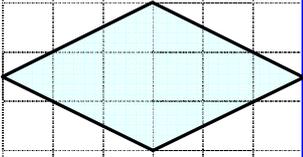
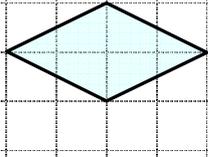
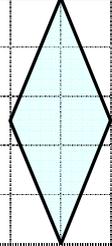
1マスを1cm×1cmとすると、次の三角形の面積を求めましょう。(5点×4問=20点)

<p>①</p>  <p>$2 \times 3 = 6\text{cm}^2$</p>	<p>②</p>  <p>$2 \times 4 = 8\text{cm}^2$</p>	<p>③</p>  <p>$3 \times 3 = 9\text{cm}^2$</p>	<p>④</p>  <p>$1 \times 3 = 3\text{cm}^2$</p>
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次の台形の面積を求めましょう。(5点×8問=40点)

<p>①</p>  <p>$(5+13) \times 10 \div 2 = 90\text{cm}^2$</p>	<p>②</p>  <p>$(6+3) \times 3 \div 2 = 13.5\text{cm}^2$</p>	<p>③</p>  <p>$(3+6) \times 4 \div 2 = 18\text{cm}^2$</p>	<p>④</p>  <p>$(5+10) \times 2 \div 2 = 15\text{cm}^2$</p>
<p>⑤</p>  <p>$(8+3) \times 12 \div 2 = 66\text{cm}^2$</p>	<p>⑥</p>  <p>$(3+5) \times 6 \div 2 = 24\text{cm}^2$</p>	<p>⑦</p>  <p>$(2+5) \times 5 \div 2 = 17.5\text{cm}^2$</p>	<p>⑧</p>  <p>$(6+2) \times 8 \div 2 = 32\text{cm}^2$</p>

1マスを1cm×1cmとするととき、次のひし形の面積を求めましょう。(5点×4問=20点)

<p>①</p>  <p>$3 \times 4 \div 2 = 6\text{cm}^2$</p>	<p>②</p>  <p>$3 \times 6 \div 2 = 9\text{cm}^2$</p>	<p>③</p>  <p>$2 \times 4 \div 2 = 4\text{cm}^2$</p>	<p>④</p>  <p>$5 \times 2 \div 2 = 5\text{cm}^2$</p>
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次の問題に答えましょう。(5点×4問=20点)

三角形の高さを5cmときめて、底辺を1cm、2cm、3cm...と変えていきます。

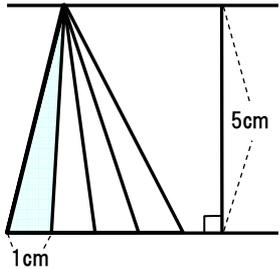
① 底辺と面積の関係を、表にかきましょう。

底辺(cm)	1	2	3	4	5	6	7	8
面積(cm ²)	2.5	5	7.5	10	12.5	15	17.5	20

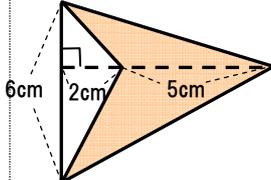
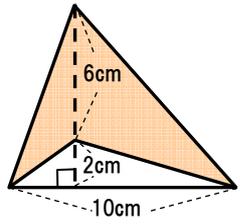
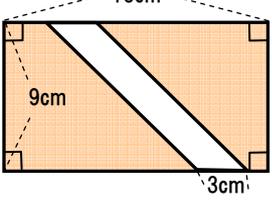
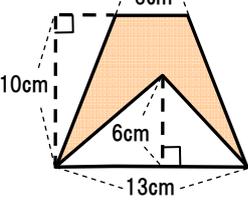
② 底辺と面積は比例していますか? **比例している。**

③ 底辺が12cmのとき、面積は何cm²ですか? **30cm²**

④ 底辺が20cmのとき、面積は何cm²ですか? **50cm²**



次の色をぬった部分の面積を求めましょう。(5点×4問=20点)

<p>①</p>  <p>$6 \times 7 \div 2 = 21$ $6 \times 2 \div 2 = 6$ $21 - 6 = 15\text{cm}^2$</p>	<p>②</p>  <p>$10 \times 8 \div 2 = 40$ $10 \times 2 \div 2 = 10$ $40 - 10 = 30\text{cm}^2$</p>	<p>③</p>  <p>$15 \times 9 = 135$ $3 \times 9 = 27$ $135 - 27 = 108\text{cm}^2$</p>	<p>④</p>  <p>$(5+13) \times 10 \div 2 = 90$ $13 \times 6 \div 2 = 39$ $90 - 39 = 51\text{cm}^2$</p>
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